<210> 912

<211> 778

<212> PRT

<213> Homo sapiens`

<400> 912

Met Leu Ser Ser Leu Gly Cys Leu Leu Cys Gly Ser Ile Thr Leu 1 5 10 15

Ala Leu Gly Asn Ala Gln Lys Leu Pro Lys Gly Lys Arg Pro Asn Leu 20 25 30

Lys Val His Ile Asn Thr Thr Ser Asp Ser Ile Leu Leu Lys Phe Leu 35 40 45

Arg Pro Ser Pro Asn Val Lys Leu Glu Gly Leu Leu Leu Gly Tyr Gly
50 55 60

Ser Asn Val Ser Pro Asn Gln Tyr Phe Pro Leu Pro Ala Glu Gly Lys
65 70 75 80

Phe Thr Glu Ala Ile Val Asp Ala Glu Pro Lys Tyr Leu Ile Val Val 85 90 95

Arg Pro Ala Pro Pro Pro Ser Gln Lys Lys Ser Cys Ser Gly Lys Thr
100 105 110

Arg Ser Arg Lys Pro Leu Gln Leu Val Val Gly Thr Leu Thr Pro Ser 115 120 125

Ser Val Phe Leu Ser Trp Gly Phe Leu Ile Asn Pro His His Asp Trp 130 135 140

Thr Leu Pro Ser His Cys Pro Asn Asp Arg Phe Tyr Thr Ile Arg Tyr 145 150 155 160

Arg Glu Lys Asp Lys Glu Lys Lys Trp Ile Phe Gln Ile Cys Pro Ala 165 170 175

Thr Glu Thr Ile Val Glu Asn Leu Lys Pro Asn Thr Val Tyr Glu Phe 180 185 190

Gly Val Lys Asp Asn Val Glu Gly Gly Ile Trp Ser Lys Ile Phe Asn 195 200 205

His Lys Thr Val Val Gly Ser Lys Lys Val Asn Gly Lys Ile Gln Ser 210 215 220

Thr Tyr Asp Gln Asp His Thr Val Pro Ala Tyr Val Pro Arg Lys Leu 225 230 235 240

Ile Pro Ile Thr Ile Ile Lys Gln Val Ile Gln Asn Val Thr His Lys 245 250 255

Asp Ser Ala Lys Ser Pro Glu Lys Ala Pro Leu Gly Gly Val Ile Leu 260 265 270

Val His Leu Ile Ile Pro Gly Leu Asn Glu Thr Thr Val Lys Leu Pro 275 280 285

- Ala Ser Leu Met Phe Glu Ile Ser Asp Ala Leu Lys Thr Gln Leu Ala 290 295 300
- Lys Asn Glu Thr Leu Ala Leu Pro Ala Glu Ser Lys Thr Pro Glu Val 305 310 315 320
- Glu Lys Ile Ser Ala Arg Pro Thr Thr Val Thr Pro Glu Thr Val Pro 325 330 335
- Arg Ser Thr Lys Pro Thr Thr Ser Ser Ala Leu Asp Val Ser Glu Thr 340 345 350
- Thr Leu Val Leu Ser Lys Arg Thr Pro Glu Thr Leu Gln Thr Ile Leu 355 360 365
- Ile Pro Gln Phe Glu Leu Pro Leu Ser Thr Leu Ala Pro Lys Ser Leu 370 375 380
- Pro Glu Phe Pro Glu Ala Lys Thr Pro Phe Pro Phe Glu Lys Pro Arg 385 390 395 400
- Gly Thr Leu Ala Ser Ser Glu Lys Pro Trp Ile Val Pro Thr Ala Lys 405 410 415
- Ile Ser Glu Asp Ser Lys Val Leu Gln Pro Gln Thr Ala Thr Tyr Asp 420 425 430
- Val Phe Ser Ser Pro Thr Thr Ser Asp Glu Pro Glu Ile Ser Asp Ser 435 440 445
- Tyr Thr Ala Thr Ser Asp Arg Ile Leu Asp Ser Ile Pro Pro Lys Thr 450 455 460
- Ser Arg Thr Leu Glu Gln Pro Arg Ala Thr Leu Ala Pro Ser Glu Thr 465 470 475 480
- Pro Phe Val Pro Gln Lys Leu Glu Ile Phe Thr Ser Pro Glu Met Gln 485 490 495
- Pro Thr Thr Pro Ala Pro Gln Gln Thr Thr Ser Ile Pro Ser Thr Pro 500 505 510
- Lys Arg Arg Pro Arg Pro Lys Pro Pro Arg Thr Lys Pro Glu Arg Thr 515 520 525
- Thr Ser Ala Gly Thr Ile Thr Pro Lys Ile Ser Lys Ser Pro Glu Pro 530 535 540
- Thr Trp Thr Thr Pro Ala Pro Gly Lys Thr Gln Phe Ile Ser Leu Lys 545 550 555 560
- Pro Lys Ile Pro Leu Ser Pro Glu Val Thr His Thr Lys Pro Ala Pro 565 570 575
- Lys Gln Thr Pro Arg Ala Pro Pro Lys Pro Lys Thr Ser Pro Arg Pro 580 585 590
- Arg Ile Pro Gln Thr Gln Pro Val Pro Lys Val Pro Gln Arg Val Thr 595 600 605

- Ala Lys Pro Lys Thr Ser Pro Ser Pro Glu Val Ser Tyr Thr Thr Pro 610 615 620
- Ala Pro Lys Asp Val Leu Leu Pro His Lys Pro Tyr Pro Glu Val Ser 625 630 635 640
- Gln Ser Glu Pro Ala Pro Leu Glu Thr Arg Gly Ile Pro Phe Ile Pro 645 650 655
- Met Ile Ser Pro Ser Pro Ser Gln Glu Glu Leu Gln Thr Thr Leu Glu 660 665 670
- Glu Thr Asp Gln Ser Thr Gln Glu Pro Phe Thr Thr Lys Ile Pro Arg 675 680 685
- Thr Thr Glu Leu Ala Lys Thr Thr Gln Ala Pro His Arg Phe Tyr Thr 690 695 700
- Thr Val Arg Pro Arg Thr Ser Asp Lys Pro His Ile Arg Pro Val Leu 705 710 715 720
- Asn Arg Thr Thr Arg Pro Thr Arg Pro Lys Pro Ser Gly Met Pro 725 730 735
- Ser Gly Asn Gly Val Gly Thr Gly Val Lys Gln Ala Pro Arg Pro Ser 740 745 750
- Gly Ala Asp Arg Asn Val Ser Val Asp Ser Thr His Pro Thr Lys Lys 755 760 765
- Pro Gly Thr Arg Arg Pro Pro Leu Pro Pro 770 775
- <210> 913
- <211> 132
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (70)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 913
- Ser Phe Arg Thr Ala Pro Arg Gly Pro His Val Lys Glu Ser His Ala

  1 5 10 15
- Ser Gly Leu Leu Ser Asn Gln Ile Asn Leu Gln Ser Phe Asp Phe Lys 20 25 30
- Arg Met Leu Cys Arg Leu Asn Ile Thr Gly Leu Cys Trp Gly Pro 35 40 45
- Lys Arg Thr Arg Cys Ala Lèu Gly Gly Gln Thr Gly Leu Gln His His 50 55 60
- Pro Ser Asn Glu Lys Xaa Arg His Ser Gly Lys Glu Asp Leu Phe Leu

75

Ser Ile Cys Leu Gly Trp Gly Thr Thr Val Asn Met Ala Cys Asn Asn 85 90 95

Gln Arg Gly Arg Gly Tyr Gln Thr Gln Arg Asn Ser Ser Pro Val Tyr 100 105 110

Gln Glu Glu Leu Leu Phe Phe Cys Thr Ser Leu Phe Ser Arg Leu Phe 115 120 125

Ser Leu Lys Gly 130

<210> 914

<211> 33

<212> PRT

<213> Homo sapiens

<400> 914

Met Asn His Leu Ser Ile Ser Ile Ala Leu Phe Leu Leu Cys Cys Val 1 5 10 15

His Leu Ser Leu Gly Leu Ser Val Phe Pro Phe Gln Glu Asp Arg Ser 20 25 30

Va1

<210> 915

<211> 102

<212> PRT

<213> Homo sapiens

<400> 915

Met Asn Tyr Leu His Cys Asn Val Leu Leu Thr Leu Phe Cys Leu Leu 1 5 10 15

Phe Leu Leu His Ser Cys Ile Lys Ile Ile Lys His His Ser Gln Ala 20 25 30

Lys Arg Thr Arg Phe Pro Ser His Ile Ser His Lys Gly Glu Ala Asn 45

Thr His Gln Gly Gly Asn Tyr Thr Glu Leu Gly Trp Gly Leu Asp Ile 50 55 60

Tyr Phe Thr Ser Glu Leu Phe Ile Ser Ala Val Asn Leu Gly Glu Gly 65 70 75 80

Leu Gly Glu Val Leu Ser Gly Glu Gln Arg Gly Pro Gly Gly Lys Leu 85 90 95

Met Lys Thr Ser Asp Asp 100

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<210> 916
<211> 85
<212> PRT
<213> Homo sapiens
<400> 916
Ile Lys Thr Val Phe Leu Gly Gln Arg Tyr Thr Asp Pro Asn Phe Ile
Ala Val Val Phe Ile His Leu Pro Ile Asp Ile Leu Lys Ala Pro Ala
Arg Pro Gly Thr Val Ala His Ala Cys Asn Leu Ser Thr Leu Val Gly
Arg Gly Gly Arg Ile Thr Arg Ser Arg Asp Gln Asp His Pro Gly Gln
Arg Gly Glu Thr Leu Ser Leu Leu Lys Ile Gln Lys Leu Ala Gly His
                                        75
Gly Gly Ala Arg Leu
<210> 917
<211> 33
<212> PRT
<213> Homo sapiens
<400> 917
Met Ile Ser Cys Leu Cys Asn Phe Ile Ala His Cys Val Ala Leu Val
Met Arg Thr Cys Met Leu Val Val Ser Ser Asn Phe Ala Pro Ser Phe
Leu
<210> 918
<211> 33
<212> PRT
<213> Homo sapiens
<400> 918
Met Ile Ser Cys Leu Cys Asn Phe Ile Ala His Cys Val Ala Leu Val
Met Arg Thr Cys Met Leu Val Val Ser Ser Asn Phe Ala Pro Ser Phe
```

Leu

20

```
<210> 919
 <211> 101
 <212> PRT
 <213> Homo sapiens
 <400> 919
 Val Asp Pro Arg Val Arg Thr Ser Ser Arg Ser Arg Ala Ala Ala Leu
                                      10
 Phe Glu Cys Phe Leu Met Val Phe Leu Leu Lys Cys Gln Val Asn Asn
                                  25
 Phe Asn Pro Ile Gln Gln Tyr Ser Leu Phe Pro Leu Lys Ser Ser Gly
                              40
 Thr Cys Ser Ile Ser Leu Phe Cys Met Arg Gly Leu Tyr Phe Cys Leu
Gly Val Val Ile Cys Thr His Ala Ile Leu Leu Lys Pro Ser Cys Leu
 Val Leu Phe Leu Glu Ser Phe Phe Phe Pro Val Leu Met Tyr Ala Gly
                  85
 Phe Gly Asn Ser Ser
             100
 <210> 920
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <400> 920
 Met Arg Lys Trp Gly Leu Met Lys Leu Ile Ala Ser Met Met Gln Pro
 Val Leu Leu Glu Leu Leu Ser Val Trp Arg Lys Glu Gly Arg Asp Ser
 Arg Asn Ile His Asp Ser His Ser Met Tyr Val Leu Arg Lys Arg Leu
· Ser Gly Ser Trp Leu Gln Gln Val Cys Thr Leu Leu
                        . 55
 <210> 921
 <211> 79
 <212> PRT
```

- Val Leu Leu Glu Leu Leu Ser Val Trp Arg Lys Glu Gly Arg Asp Ser 20 25 30
- Arg Asn Ile His Asp Ser His Ser Met Tyr Val Leu Arg Lys Arg Leu 35 40 45
- Ser Gly Ser Trp Leu Gln Ala Gly Leu Tyr Ser Thr Val Ile Ser Ala 50 55 60
- Ala Leu Ile Leu Glu Ser Pro Arg Ala Cys Leu Pro Ser Lys Gly 65 70 75
- <210> 922
- <211> 245
- <212> PRT
- <213> Homo sapiens
- <400> 922
- Met Ala Asp Val Ser Ala Lys Asp Ser Ser Gln Glu Thr Leu Val Asn 1 5 10 15
- Leu Ala Gly Leu Leu Val Ser Leu Leu Met Leu Pro Leu Val Ser Gly 20 25 30
- Cys Pro Gly Phe Ser Leu Gly Cys Phe Phe Phe Leu Thr Ala Leu His 35 40 45
- Ile Tyr Ala Asn Tyr Arg Ala Val Arg Ala Leu Val Met Glu Thr Leu 50 55 60
- Asn Glu Gly Arg Leu Arg Leu Val Leu Lys His Tyr Leu Gln Arg Gly 65 70 75 80
- Glu Val Leu Asp Pro Thr Ala Ala Asn Arg Met Glu Pro Leu Trp Thr 85 90 95
- Gly Phe Trp Pro Ala Pro Ser Leu Ser Leu Gly Val Pro Leu His Arg  $100 \hspace{1cm} 105 \hspace{1cm} 110$
- Leu Val Ser Ser Val Phe Glu Leu Gln Gln Leu Val Glu Gly His Gln
  115 120 125
- Glu Ser Tyr Leu Leu Cys Trp Asp Gln Ser Gln Asn Gln Val Gln Val
  130
  135
  140
- Val Leu Asn Gln Lys Ala Gly Pro Lys Thr Ile Leu Arg Ala Ala Thr 145 150 155 160
- His Gly Leu Met Leu Gly Ala Leu Gln Gly Asp Gly Pro Leu Pro Ala 165 170 175
- Glu Leu Glu Glu Leu Arg Asn Arg Val Arg Ala Gly Pro Lys Lys Glu 180 185 190
- Ser Trp Val Val Lys Glu Thr His Glu Val Leu Asp Met Leu Phe 195 200 205
- Pro Lys Phe Leu Lys Gly Leu Gln Asp Ala Gly Trp Lys Thr Glu Lys

```
His Gln Leu Glu Val Asp Glu Trp Arg Ala Thr Trp Leu Leu Ser Pro 225 230 235 240
```

Glu Lys Lys Val Leu 245

<210> 923

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 923

Leu Pro Val Gln Asn Gly Cys Pro Glu Ser Ala Met Glu Met Asn Gly
1 5 10 15

Arg Ala Pro Cys Trp Glu Val Gly Leu Glu Glu Leu Ser Ser Arg Lys 20 25 30

Leu Thr Ala Gly Pro Gln Phe Pro Ser Glu Pro Gln Ala Pro Ala Pro 35 40 45

Ser Leu Phe Arg Gln Cys Leu Leu Trp Phe Cys Gly Met Xaa Xaa Gly 50 55 60

Gly Val Gly Ser Pro Pro Pro Leu Thr Gln Glu 65 70 75

<210> 924

<211> 186

<212> PRT

<213> Homo sapiens

<400> 924

Met Leu Pro Leu Val Ser Gly Cys Pro Gly Phe Ser Leu Gly Cys Phe 1 5 10 15

Phe Phe Leu Thr Ala Leu His Ile Tyr Ala Asn Tyr Arg Ala Val Arg
20 25 30

Ala Leu Val Met Glu Thr Leu Asn Glu Gly Arg Leu Arg Leu Val Leu 35 40 45

Lys His Tyr Leu Gln Arg Gly Glu Val Leu Asp Pro Thr Ala Ala Asn 50 55 60

Arg Met Glu Pro Leu Trp Thr Gly Phe Trp Pro Ala Pro Ser Leu Ser 65 70 75 80

Leu Gly Val Pro Leu His Arg Leu Val Ser Ser Val Phe Glu Leu Gln 85 90 95

Gln Leu Val Glu Gly His Gln Glu Ser Tyr Leu Leu Cys Trp Asp Gln 100 105 110

Ser Gln Asn Gln Val Gln Val Leu Asn Gln Lys Ala Gly Pro Lys 115 120 125

Thr Ile Leu Arg Ala Ala Thr His Gly Leu Met Leu Gly Ala Leu Gln 130 135 140

Gly Asp Gly Pro Leu Pro Ala Glu Leu Glu Glu Leu Arg Asn Arg Val 145 150 155 160

Arg Ala Gly Pro Arg Lys Arg Ala Gly Ser Ser Arg Arg His Thr 165 170 175

Lys Cys Trp Thr Cys Cys Ser Gln Ser Ser 180 185

<210> 925

<211> 40

<212> PRT

<213> Homo sapiens

<400> 925

Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro 1 5 10 15

Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser 20 25 30

Val Ile Thr Asp Asn Leu Cys Leu
35 40

<210> 926

<211> 40

<212> PRT

<213> Homo sapiens

<400> 926

Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro 1 5 10 15

Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser 20 25 30

Val Ile Thr Asp Asn Leu Cys Leu

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<210> 927
<211> 73
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 927
Ser Leu Leu Ser Cys Cys Pro Leu Gly Asn Arg Ala Tyr Gly Ala
Thr Gly Ala Glu Val Ala Ser Arg Ala Ser Leu Glu Gly Ser Glu His
Ser Met Gln Arg Ser His Arg Glu Ala Gly Asn Gln Gly Pro Gly Arg
                           40
Ala Ala Ser Cys Ala Ser Pro Ala Phe Val Met Xaa Phe Ser Phe Phe
                        55
Thr His Cys Gln Ile Cys Phe Leu Pro
65 . . . 70
<210> 928
<211> 7
<212> PRT
<213> Homo sapiens
<400> 928
Glu Ala Pro Trp Gln Phe Ser
<210> 929
<211> 23.
<212> PRT
<213> Homo sapiens
<400> 929
Met Phe Leu Lys Ala Gln Trp Leu Tyr Ser Leu Leu Leu Asn Cys Leu
                                   10
Leu Pro Glu Gly Thr Ser Ser
             20
<210> 930
<211> 23
<212> PRT
<213> Homo sapiens
<400> 930
```

Met Phe Leu Lys Ala Gln Trp Leu Tyr Ser Leu Leu Leu Asn Cys Leu 1 5 10 15

Leu Pro Glu Gly Thr Ser Ser 20

<210> 931

<211> 64

<212> PRT

<213> Homo sapiens

<400> 931

Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu
1 5 10 15

Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala 20 25 30

Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser 35 40 45

Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu 50 55 60

<210> 932

<211> 822

<212> PRT

<213> Homo sapiens

<400> 932

Met Ala Ala Val Val Val Ala Glu Gly Asp Ser Asp Ser Arg Pro
1 5 10 15

Gly Gln Glu Leu Leu Val Ala Trp Asn Thr Val Ser Thr Gly Leu Val 20 25 30

Pro Pro Ala Ala Leu Gly Leu Val Ser Ser Arg Thr Ser Gly Ala Val 35 40 45

Pro Pro Lys Glu Glu Glu Leu Arg Ala Ala Val Glu Val Leu Arg Gly 50 55 60

His Gly Leu His Ser Val Leu Glu Glu Trp Phe Val Glu Val Leu Gln 65 70 75 80

Asn Asp Leu Gln Ala Asn Ile Ser Pro Glu Phe Trp Asn Ala Ile Ser 85 90 95

Gln Cys Glu Asn Ser Ala Asp Glu Pro Gln Cys Leu Leu Leu Leu 100 '105 110

Asp Ala Phe Gly Leu Leu Glu Ser Arg Leu Asp Pro Tyr Leu Arg Ser 115 120 125

385

Leu Glu Leu Leu Glu Lys Trp Thr Arg Leu Gly Leu Leu Met Gly Thr 135 Gly Ala Gln Gly Leu Arg Glu Glu Val His Thr Met Leu Arg Gly Val 155 Leu Phe Phe Ser Thr Pro Arg Thr Phe Gln Glu Met Ile Gln Arg Leu 165 Tyr Gly Cys Phe Leu Arg Val Tyr Met Gln Ser Lys Arg Lys Gly Glu 185 Gly Gly Thr Asp Pro Glu Leu Glu Gly Glu Leu Asp Ser Arg Tyr Ala 200 Arg Arg Arg Tyr Tyr Arg Leu Leu Gln Ser Pro Leu Cys Ala Gly Cys 215 Ser Ser Asp Lys Gln Gln Cys Trp Cys Arg Gln Ala Leu Glu Gln Phe 235 230 His Gln Leu Ser Gln Val Leu His Arg Leu Ser Leu Leu Glu Arg Val 250 Ser Alà Glu Ala Val Thr Thr Leu His Gln Val Thr Arg Glu Arg 265 Met Glu Asp Arg Cys Arg Gly Glu Tyr Glu Arg Ser Phe Leu Arg Glu 280 Phe His Lys Trp Ile Glu Arg Val Val Gly Trp Leu Gly Lys Val Phe Leu Gln Asp Gly Pro Ala Arg Pro Ala Ser Pro Glu Ala Gly Asn Thr 310 Leu Arg Arg Trp Arg Cys His Val Gln Arg Phe Phe Tyr Arg Ile Tyr 325 Ala Ser Leu Arg Ile Glu Glu Leu Phe Ser Ile Val Arg Asp Phe Pro Asp Ser Arg Pro Ala Ile Glu Asp Leu Lys Tyr Cys Leu Glu Arg Thr Asp Gln Arg Gln Gln Leu Leu Val Ser Leu Lys Ala Ala Leu Glu Thr 375 Arg Leu Leu His Pro Gly Val Asn Thr Cys Asp Ile Ile Thr Leu Tyr

Ile Ser Ala Ile Lys Ala Leu Arg Val Leu Asp Pro Ser Met Val Ile

Leu Glu Val Ala Cys Glu Pro Ile Arg Arg Tyr Leu Arg Thr Arg Glu

Asp Thr Val Arg Gln Ile Val Ala Gly Leu Thr Gly Asp Ser Asp Gly
435
440
445

390

420

410

512

Thr Gly Asp Leu Ala Val Glu Leu Ser Lys Thr Asp Pro Ala Ser Leu Glu Thr Gly Gln Asp Ser Glu Asp Ser Gly Glu Pro Glu Asp Trp Val Pro Asp Pro Val Asp Ala Asp Pro Gly Lys Ser Ser Ser Lys Arg Arg Ser Ser Asp Ile Ile Ser Leu Leu Val Ser Ile Tyr Gly Ser Lys 505 Asp Leu Phe Ile Asn Glu Tyr Arg Ser Leu Leu Ala Asp Arg Leu Leu His Gln Phe Ser Phe Ser Pro Glu Arg Glu Ile Arg Asn Val Glu Leu Leu Lys Leu Arg Phe Gly Glu Ala Pro Met His Phe Cys Glu Val Met Leu Lys Asp Met Ala Asp Ser Arg Arg Ile Asn Ala Asn Ile Arg Glu 570 Glu Asp Glu Lys Arg Pro Ala Glu Glu Gln Pro Pro Phe Gly Val Tyr 580 585 Ala Val Ile Leu Ser Ser Glu Phe Trp Pro Pro Phe Lys Asp Glu Lys 600 Leu Glu Val Pro Glu Asp Ile Arg Ala Ala Leu Glu Ala Tyr Cys Lys 615 Lys Tyr Glu Gln Leu Lys Ala Met Arg Thr Leu Ser Trp Lys His Thr 630 635 Leu Gly Leu Val Thr Met Asp Val Glu Leu Ala Asp Arg Thr Leu Ser 645 Val Ala Val Thr Pro Val Gln Ala Val Ile Leu Leu Tyr Phe Gln Asp 665 Gln Ala Ser Trp Thr Leu Glu Glu Leu Ser Lys Ala Val Lys Met Pro Val Ala Leu Leu Arg Arg Met Ser Val Trp Leu Gln Gln Gly Val 695 Leu Arg Glu Glu Pro Pro Gly Thr Phe Ser Val Ile Glu Glu Glu Arg 705 710 Pro Gln Asp Arg Asp Asn Met Val Leu Ile Asp Ser Asp Asp Glu Ser 730 725 Asp Ser Gly Met Ala Ser Gln Ala Asp Gln Lys Glu Glu Glu Leu Leu Leu Phe Trp Thr Tyr Ile Gln Ala Met Leu Thr Asn Leu Glu Ser Leu

760

755

765

Ser Leu Asp Arg Ile Tyr Asn Met Leu Arg Met Phe Val Val Thr Gly 770 780

Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln 785 790 795 800

Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg 805 810 815

Leu Pro Lys Asn Cys Ser 820

<210> 933

<211> 157

<212> PRT

<213> Homo sapiens

<400> 933

Met Ser Pro Trp Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu
1 5 10 15

Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg 20 25 30

Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His 35 40 45

Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln 50 55 60

Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile 65 70 75 80

Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr 85 90 95

Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe
100 105 110

Leu Lys Pro Trp Leu Gly Glu Tyr Leu Gln Val Lys Gly Val Gly Asp 115 120 125

Asn Leu Ala Gly Arg Val Gly Glu Val Leu Leu Pro Ile Val Leu 130 135 140

Gly Cys Pro Thr Arg Arg Arg Asp Thr Ala Glu Trp Arg

<210> 934

<211> 13

<212> PRT

<213> Homo sapiens

<400> 934

Leu Val Ile Gly Gly Trp Gly Gln Arg Arg Leu Tyr Arg

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<210> 935
<211> 126
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Ser Pro Trp Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu
Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg
Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His
Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln
                         55
Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile
Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr
                                     90
Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe
                             105
Leu Lys Pro Trp Leu Gly Xaa Arg Asp Thr Ala Glu Trp Arg
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<210> 936
<211> 90
<212> PRT
<213> Homo sapiens
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<221> SITE <222> (22)

<220>

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (25).

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 936

Gln Asn Thr Ile Glu Cys Gly Ser Ser Thr Ala Gly Val Cys Cys Ser 1 5 10 15

Gln Leu Trp Arg Leu Xaa Val Gln Xaa Xaa Gly Thr Gly Arg Leu His 20 25 30

Val Trp Trp Gly Pro Ala Ser Trp Ser Ile Ala Ser Thr Phe Ser Leu 35 40 45

His Pro Tyr Val Val Glu Glu Ala Gly Glu Leu Ser Gly Val Ser Phe 50 55 60

Val Thr Pro Phe Leu Arg Leu Val His Ser His Asp Leu Ile Thr Ser 65 70 75 80

Gln Arg Pro Cys Leu Leu Thr Pro Leu Pro 85 90

<210> 937

<211> 58

<212> PRT

<213> Homo sapiens

<400> 937

Met Lys Leu Thr Phe Ser Phe Pro Trp Phe Thr Leu Thr Ala Leu Gln
1 5 10 15

Leu Trp Ser Ala Thr Glu Cys Gln Ala Val Val Asp Thr Met Ile Ala 20 25 30

Val Trp Ser Glu Gly Lys Gly Thr Gly Val Ser Trp Glu Pro Trp Leu 35 40. 45

Leu Gly Lys Leu Gln Ser Ser Ser Phe Leu
50 55

<210> 938 -

<211> 34

<212> PRT

<213> Homo sapiens

<400> 938

Leu Cys Val Ser His Pro Gly Ile Thr Cys Thr Pro Leu Trp Leu Cys
1 5 10 15

Val Ile Ser Gin Asn Met Glu Leu Ile Leu Met Phe Arg Arg Pro Lys 20 25 30

Leu Thr

<210> 939

```
<211> 6
 <212> PRT
 <213> Homo sapiens
 <400> 939
 Thr Leu Thr Ala Lys Thr
 <210> 940
 <211> 58
 <212> PRT
 <213> Homo sapiens
 <400> 940
 Met Lys Leu Thr Phe Ser Phe Pro Trp Phe Thr Leu Thr Ala Leu Gln
 Leu Trp Ser Ala Thr Glu Cys Gln Ala Val Val Asp Thr Met Ile Ala
 Val Trp Ser Glu Gly Lys Gly Thr Gly Val Ser Trp Glu Pro Trp Leu
Leu Gly Lys Leu Gln Ser Ser Ser Phe Leu
<210> 941
<211> 44
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
<222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids
Leu Lys Xaa Ile Thr Ile Cys Cys Leu Gln Lys Thr His Leu His Ser
Lys Gly Thr Glu Arg Met Lys Val Lys Gly Trp Glu Arg Val Tyr Trp
 Gly Asn Ile Thr Glu Gly Asn Met Met Asn Leu Tyr
 <210> 942
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 942
 Leu Gly Ala Phe Ser Trp Ser Pro Lys
```

```
<210> 943
```

<212> PRT

<213> Homo sapiens

<400> 943

Met Ala Arg Ser Leu Leu Ile Ile Leu Gly Ala Asp Phe Thr Phe Pro 1 5 10 15

Thr Ser Phe Asn Cys Phe Gln Lys Met Asn Leu Ala Lys Lys Ser Arg 20 25 30

Gly Ser Phe Thr His Leu Leu Thr His Ser Trp Cys Leu Ser Leu Phe 35 40 45

Leu Lys Glu Ala Asp Gln Gly Leu Arg Glu Asn Asn Phe Asp Phe Ser

His Val Cys Pro Ser Lys Pro Pro Leu Trp Thr Asp Ser Pro Ser Val 65 70 75 80

Pro Gly Arg Asn Trp Asp Asn Pro Arg Thr Phe Leu Val Pro Ser Arg 85 90 95

<210> 944

<211> 96

<212> PRT

<213> Homo sapiens

<400> 944

Met Ala Arg Ser Leu Leu Ile Ile Leu Gly Ala Asp Phe Thr Phe Pro 1 5 10 15

Thr Ser Phe Asn Cys Phe Gln Lys Met Asn Leu Ala Lys Lys Ser Arg 20 25 30

Gly Ser Phe Thr His Leu Leu Thr His Ser Trp Cys Leu Ser Leu Phe 35 40 45

Leu Lys Glu Ala Asp Gln Gly Leu Arg Glu Asn Asn Phe Asp Phe Ser 50 55 60

His Val Cys Pro Ser Lys Pro Pro Leu Trp Thr Asp Ser Pro Ser Val 65 70 75 80

Pro Gly Arg Asn Trp Asp Asn Pro Arg Thr Phe Leu Val Pro Ser Arg 85 90 95

<sup>&</sup>lt;211> 96

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<210> 945
<211> 26
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Leu Xaa Phe Xaa Phe Phe Leu Leu Phe Phe Phe Phe Trp Trp
Cys Cys Leu Ala Phe Phe Ser Phe Pro Phe
        . 20
<210> 946
<211> 77
<212> PRT
<213> Homo sapiens
<400> 946
Met Leu Leu Phe Phe Phe Phe Leu Leu Phe Phe Phe Phe Phe Trp
                                     10
Leu Val Leu Phe Gly Ile Phe Phe Phe Ser Phe Leu Lys Lys Met Phe
                                25 ′
Ser Gly Asn Met Asn Lys His Thr Ala Asn Tyr Ser Gly Ala Gly Lys
         35
Ala Gln Glu Leu Ala Thr Ser Gln Leu His Ser Trp Asp Gly Lys Pro
Cys Cys Glu Leu Leu Arg Leu Phe Thr Tyr Phe Thr Tyr
<210> 947
<211> 77
<212> PRT
<213> Homo sapiens
<400> 947
Met Leu Phe Phe Phe Phe Leu Leu Phe Phe Phe Phe Phe Trp
                                     10
Leu Val Leu Phe Gly Ile Phe Phe Phe Ser Phe Leu Lys Lys Met Phe
                                 25
```

```
Ser Gly Asn Met Asn Lys His Thr Ala Asn Tyr Ser Gly Ala Gly Lys 35 40 45
```

Ala Gln Glu Leu Ala Thr Ser Gln Leu His Ser Trp Asp Gly Lys Pro 50 55 60

Cys Cys Glu Leu Leu Arg Leu Phe Thr Tyr Phe Thr Tyr 65 70 75

<210> 948

<211> 11

<212> PRT

<213> Homo sapiens

<400> 948

Met Trp Arg Trp Leu Ser Ser Phe Trp Leu Leu 1 5 10

<210> 949

<211> 11

<212> PRT

<213> Homo sapiens

<400> 949

Met Trp Arg Trp Leu Ser Ser Phe Trp Leu Leu 1 5 10

<210> 950

<211> 378

<212> PRT

<213> Homo sapiens

<400> 950

Ala Arg Glu Lys Pro Tyr Leu Val Glu Glu Ala Val Ser Tyr Asn Glu
1 5 10 15

Leu Asp Tyr Val Ser Val Gly Leu Asp Gln Gln Thr Val Lys Leu Val
20 25 30

Cys Thr Asn Arg Arg Lys Gln Phe Leu Leu Asp Thr Ala Asp Val Ala 35 40 45

Leu Ala Glu Phe Phe Leu Ala Ser Leu Lys Ser Ala Met Ile Lys Gly 50 55 60

Cys Arg Glu Pro Pro Tyr Pro Ser Ile Leu Thr Asp Ala Thr Met Glu 65 70 75 80

Lys Leu Ala Leu Ala Lys Phe Val Ala Gln Glu Ser Lys Cys Glu Ala 85 90 95

Ser Ala Val Thr Val Arg Phe Tyr Gly Leu Val His Trp Glu Asp Pro 100 105 110 Thr Asp Glu Ser Leu Gly Pro Thr Pro Cys His Cys Ser Pro Pro Glu 115 120 125

Gly Thr Ile Thr Lys Glu Gly Met Leu His Tyr Lys Ala Gly Thr Ser 130 135 140

Tyr Leu Gly Lys Glu His Trp Lys Thr Cys Phe Val Val Leu Ser Asn 145 150 155 160

Gly Ile Leu Tyr Gln Tyr Pro Asp Arg Thr Asp Val Ile Pro Leu Leu 165 170 175

Ser Val Asn Met Gly Gly Glu Gln Cys Gly Gly Cys Arg Arg Ala Asn 180 185 190

Thr Thr Asp Arg Pro His Ala Phe Gln Val Ile Leu Ser Asp Arg Pro 195 200 205 .

Cys Leu Glu Leu Ser Ala Glu Ser Glu Ala Glu Met Ala Glu Trp Met 210 215 220

Gln His Leu Cys Gln Ala Val Ser Lys Gly Val Ile Pro Gln Gly Val 225 230 235 240

Ala Pro Ser Pro Cys Ile Pro Cys Cys Leu Val Leu Thr Asp Asp Arg 245 250 255

Leu Phe Thr Cys His Glu Asp Cys Gln Thr Ser Phe Phe Arg Ser Leu 260 265 270

Gly Thr Ala Lys Leu Gly Asp Ile Ser Ala Val Ser Thr Glu Pro Gly 275 280 285

Lys Glu Tyr Cys Val Leu Glu Phe Ser Gln Asp Ser Gln Gln Leu Leu 290 295 300

Pro Pro Trp Val Ile Tyr Leu Ser Cys Thr Ser Glu Leu Asp Arg Leu 305 310 315 320

Leu Ser Ala Leu Asn Ser Gly Trp Lys Thr Ile Tyr Gln Val Asp Leu 325 330 335

Pro His Thr Ala Ile Glu Glu Ala Ser Asn Lys Lys Lys Phe Glu Asp 340 345 350

Ala Leu Ser Leu Ile His Ser Ala Trp Gln Arg Ser Asp Ser Leu Cys 355 360 365

Arg Gly Arg Ala Ser Arg Asp Pro Trp Cys 370 375

<210> 951

<211> 134

<212> PRT

<213> Homo sapiens

<400> 951

Ser Pro Ala Arg His Pro Thr Thr Ser Ser Arg His Thr Trp Trp Glu

Ser Gly Asn Ala Val Pro Pro Gly Ser Pro Phe His Gly Arg Pro Leu 20 25 30

Leu Leu Gln Pro Ala Gly Pro Val Pro Phe Gln Asp Gln Pro Phe 35 40 45

Asp Pro Ser Gln Gly Pro Trp Pro Gly Leu His Cys Arg Pro Gln Gly 50 55 60

Leu Met His Ser Met Cys Leu Pro Asp Leu Thr Pro Glu Asp Gly Gly 65 70 75 80

Lys Ala Gln Asp His Thr Ala Leu Gly His Ser Arg Glu Gln Asp Thr 85 90 95

Pro Gly Val Gln Glu Asn Phe Gln Gly Ala Ala Pro Leu Asp Arg Tyr
100 105 110

Thr Arg Arg Phe Asn Thr Leu Tyr Tyr Leu Gly Asn Gln Arg Arg Gly 115 120 125

Ile Ile Lys Thr Arg Lys 130

<210> 952

<211> 58

<212> PRT

<213> Homo sapiens

<400> 952

Met Ala Thr Ala Ser Ile Asn Asn Leu Ile Ser Ser Leu Leu His 1 5 10 15

Leu Ser Leu Leu Ser Ser Lys Ala Gly Lys Phe Leu Ile Trp Lys Glu 20 25 30

His Lys Thr Ala Cys Gly Cys Tyr Ala Asn Ser Thr Cys Leu Leu Pro  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Asn Gly Leu Ser Asn His Lys Gly Lys Ser 50 55

<210> 953

<211> 58

<212> PRT

<213> Homo sapiens

<400> 953

Met Ala Thr Ala Ser Ile Asn Asn Leu Ile Ser Ser Leu Leu His
1 5 10 15

Leu Ser Leu Leu Ser Ser Lys Ala Gly Lys Phe Leu Ile Trp Lys Glu 20 25 30 His Lys Thr Ala Cys Gly Cys Tyr Ala Asn Ser Thr Cys Leu Leu Pro 35 40 45

Asn Gly Leu Ser Asn His Lys Gly Lys Ser 50 55

<210> 954

<211> 63

<212> PRT

<213> Homo sapiens

<400> 954

Glu Asn Lys Arg Leu His Phe Gly Glu Ala Ser Thr Leu Ser Gly Leu 1 5 10 15

Leu Phe Cys Phe Met Ser Trp Cys Leu Gly Glu Asp Leu Ala Gly Phe 20 25 30

Ile Gln Ser Gly Arg Val Trp Ala Ile Leu Glu Asn Val Pro Ser Ile 35 40 45

Ser Glu Asn Lys Ser Ala Pro Ser Thr Cys Leu His Pro Gly Asp 50 55 60

<210> 955

<211> 77

<212> PRT

<213> Homo sapiens

<400> 955

Met Ala Gly Leu Gly Leu Ser Leu Val Gln Phe Ser Val Thr Gly
1 10 15

Gly His Trp Thr Gly Ile Ala Asp Ser Leu Val Ala Thr Leu Gly Cys 20 25 30

Arg Leu Ser Gly Ser Val Pro Pro Pro Leu Leu Pro Ala Pro Ser Gly 35 40 45

His Ser Arg Ala Leu His Gln Thr Leu Thr Trp Cys Leu His Leu Leu 50 55 60

Ser Leu Ser Pro Ser Ser Asn Pro Trp Lys Ser Leu Val
65 70 75

<210> 956

<211> 77

<212> PRT

<213> Homo sapiens

<400> 956

Met Ala Gly Leu Gly Leu Leu Ser Leu Val Gln Phe Ser Val Thr Gly
1 5 10 15

```
Gly His Trp Thr Gly Ile Ala Asp Ser Leu Val Ala Thr Leu Gly Cys 20 25 30
```

Arg Leu Ser Gly Ser Val Pro Pro Pro Leu Leu Pro Ala Pro Ser Gly 35 40 45

His Ser Arg Ala Leu His Gln Thr Leu Thr Trp Cys Leu His Leu Leu 50 55 60

Ser Leu Ser Pro Ser Ser Asn Pro Trp Lys Ser Leu Val

<210> 957

<211> 27

<212> PRT

<213> Homo sapiens

<400> 957

Met Arg Ala Arg Thr Leu Pro Pro Ser Leu Leu Cys Leu Trp Cys Leu

1 5 10 15

Ala Pro Tyr Leu Asn Ile Cys Trp Met Asn Gly 20 25

<210> 958

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 958

Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Trp Xaa Glu Glu 1 5 10 15

Gly Gly Ser Pro Glu Val Arg Ser Ser Arg Pro Ala 20 25

<210> 959

<211> 27

<212> PRT

<213> Homo sapiens

<100> 959

Met Arg Ala Arg Thr Leu Pro Pro Ser Leu Leu Cys Leu Trp Cys Leu

1 5 10 15

Ala Pro Tyr Leu Asn Ile Cys Trp Met Asn Gly
20 25

```
<210> 960
<211> 13
<212> PRT
<213> Homo sapiens
<400> 960
Pro Pro Arg Ala Ser Trp Ser Pro Arg Glu His Val Leu
                  5
<210> 961
<211> 70
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 961
Met Xaa Xaa His Glu Ser Ile Leu Leu Val Ser Leu Asp Leu Leu Pro
Thr Ser Ile Leu Leu Val Ser Leu Trp Ile Cys Ser Pro Pro Pro Ser
                                 25
             20
Ser Trp Val Asn Pro Gly Ser Phe Val Gly Tyr Leu Glu Arg Lys Arg
                             40
Gln Lys Leu Ile Cys Gln Met Thr Arg Thr Asn Arg Leu Phe Gly Met
     50
                     55
Lys Arg Lys Thr Ser Gly
<210> 962
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 962
Ser Leu Ala Leu Asn Ser Pro Pro Pro Gly Leu Arg Val Pro Arg Glu
Glu Arg Leu Leu Ala Thr Ser Leu Leu Gln Gly Ala Leu Pro Ala Gly
```

```
Pro Cys Pro Ser Thr Thr Leu Leu Ser Trp His Arg Pro Ala Xaa Pro
                           40
```

25

Pro Gly Ala Gln Gly 50

<210> 963

<211> 65

<212> PRT

<213> Homo sapiens

<400> 963

Ser Ile Leu Leu Val Ser Leu Asp Leu Leu Pro Thr Ser Ile Leu Leu

Val Ser Leu Trp Ile Cys Ser Pro Pro Pro Ser Ser Trp Val Asn Pro

Gly Ser Phe Val Gly Tyr Leu Glu Arg Lys Arg Gln Lys Leu Ile Cys

Gln Met Thr Arg Thr Asn Arg Leu Phe Gly Met Lys Arg Lys Thr Ser

Gly

<210> 964

<211> 3

<212> PRT

<213> Homo sapiens

<400> 964 Asp Leu Lys 1

<210> 965

<211> 9

<212> PRT

<213> Homo sapiens

<400> 965

Met Asn Glu Lýs Phe Leu Pro Pro Leu

<210> 966

<211> 51

<212> PRT

<213> Homo sapiens

<400> 966

```
Met Leu Arg Pro Pro Arg Trp Ala Leu Met Ala Ala Ser Ser His Pro
Pro Pro Leu Trp Ser Trp Val Leu Gly Leu Ala Ala His Pro Thr Gly
Met Ser Pro Gly Thr Gly Pro His His Gly Trp Val Ser Ala Ser Ser
Ser Ser Ser
     50
<210> 967
<211> 244
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 967
Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
                                      10
Leu Val Ala Ile Val Leu Ala His Xaa Leu Ala Phe Phe Trp Phe His
His Tyr Gly Pro Pro Pro Pro Xaa Xaa Ala Xaa Phe Val Glu Gln Pro
         35
```

```
Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly 50 55 60
```

- Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala 65 70 75 80
- Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser 85 90 95
- Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val 100 105 110
- Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu 115 120 125
- Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu 130 135 140
- Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu 145 150 155 160
- Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
  165 170 175
- Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu 180 185 190
- His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala 195 200 205
- Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val 210 215 220
- Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr 225 230 235 240

Pro Pro Pro Phe

- <210> 968
- <211> 244
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
  - <222> (231)
  - <223> Xaa equals any of the naturally occurring L-amino acids
  - <220>
  - <221> SITE
  - <222> (237)
  - <223> Xaa equals any of the naturally occurring L-amino acids
  - <400> 968
  - Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu 1 5 10 15

Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His 20 25 30

His Tyr Gly Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro
35 40 45

Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly 50 55 60

Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala 65 70 75 80

Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser 85 90 95

Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val 100 105 110

Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu 115 120 125

Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu 130 135 140

Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu 145 150 155 160

Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
165 170 175

Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu 180 185 190

His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala 195 200 205

Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val 210 215 220

Gln Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr 225 230 235 240

Pro Pro Pro Phe

<210> 969

<211> 85

<212> PRT

<213> Homo sapiens

<400> 969

Gly Ile Gly Ser Arg Val Arg Ala Ala Phe Ile Ala Leu Glu Pro Ser 1 5 10 15

Leu Gly Met Gly Phe Ser Lys Asn Trp Gln Ala His Arg Leu Pro Ser 20 25 30

Lys Trp Val Arg Thr Ala Tyr Pro Ser Ile Glu Thr His Tyr Leu Phe

Tyr Leu Phe Leu Ser Gly Ser Gly Ala Arg Cys Ser Tyr Phe Ser His 50 55 60

Leu Arg Trp Asp Ile Leu Gly Gln Thr Arg Glu Ile Leu Glu Ala Ile 65 70 75 80

Ser Val Val Asn Pro 85

<210> 970

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 970

Met Lys Thr Val Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe 1 5 10 15

Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser 20 25 30

Ile Xaa Xaa Ser Val Ser Ser Ile Thr Thr Val His Pro Xaa Leu Gly
35 40 45

Leu Leu Phe Cys Ile Leu 50

<210> 971

<211> 37

<212> PRT

<213> Homo sapiens

<400> 971

Ile Leu Leu Gly Leu Trp Gln Ser Val Leu Gly Ser Ser Ile Trp Gly
1 5 10 15

Gln Pro Leu Ser Tyr Asn Cys Gln Glu Pro His Asn Cys Leu Phe Asn 20 25 30

```
<210> 972
```

<211> 56

<212> PRT

<213> Homo sapiens

<400> 972

Met Lys Thr Val Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe 1 5 10 15

Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser 20 . 25 30

Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val 35 40 45

Phe Phe Phe Ala Phe Phe Arg Thr 50 55

<210> 973

<211> 65

<212> PRT

<213> Homo sapiens

<400> 973

Lys Leu Thr Gln Ala Gly Ser Gly Tyr Val His Arg Glu Ile Phe Pro 1 5 10 15

Arg Val Cys Phe Phe Asp Ile Leu Ser Pro Ser Phe Tyr Leu Leu Ala 20 25 30

Gly Ile Ser Cys Pro Thr Thr Pro Val Ile Ile Cys Lys Pro Leu Tyr 35 40 45

Ser Phe Gln Cys Leu Lys Val Ile His Lys Glu Gly Arg Asn Lys Arg 50 55 60

Val

65

<210> 974

<211> 11

<212> PRT

<213> Homo sapiens

<400> 974

Met Thr Leu Ser Asn Trp Glu Tyr Gly Phe His 1 5 10

<210> 975

```
<211> 60
```

<212> PRT

<213> Homo sapiens

<400> 975

Met Pro Phe Tyr Tyr Ala Gly Leu Ile Leu Met Glu Met Arg Leu Thr 1 5 10 15

Ile Ala Lys Thr Pro Val Glu Thr Gln Gln Ser Trp Pro Ala Phe Leu 20 25 30

Trp Tyr Phe Gly Cys Gly Ser Cys Asp Gly Tyr Ser Ile Lys His Cys 35 40 45

Ile Ser Leu His Leu Leu Ser Phe Ser Leu Gln Lys
50 55 60

<210> 976

<211> 24

<212> PRT

<213> Homo sapiens

<400> 976

Ile Cys Leu Trp Gly Arg Pro Asn Leu Thr Thr Gln Gly Thr Leu Lys
1 10 15

Gly Ile Ser Gly Arg Arg Ser Gln 20

·<210> 977

<211> 128

<212> PRT

<213> Homo sapiens

<400> 977

Pro Glu Thr Phe Leu Leu Val Thr Gly Ser Gln Trp Gly Ile Leu Gly
1 5 10 15

Cys Gln Gly Pro Arg Val Thr Cys Val Gln Leu Phe Tyr Gly Ser Arg 20 25 30

Gly Leu Ser Leu Arg Gln Ala Thr Lys Cys Pro Gly Cys His Pro Pro 35 40 45

Trp Ser Pro Ser Val Pro His Ala Trp Ser Pro Ala Ser Pro Arg Ile
50 55 60

Pro Val Ala Phe Ile Ser Gly Gln Leu Pro Ala Arg Pro Gly Leu Gly 65 70 75 80

His Gly Leu Arg His Glu Ala Arg Pro Pro Pro Ala Pro Leu Pro Arg 85 90 95

Gly Ser Ser Ile Pro Leu His Phe Trp Asn Val Cys Ala Ser Met Met  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110$ 

```
Phe Val Tyr Leu Arg His Leu Lys Ile Tyr Phe Arg Tyr Glu Gly Lys 115 120 125
```

```
<210> 978
```

<211> 23

<212> PRT

<213> Homo sapiens

<400> 978

Ile Cys Leu Trp Gly Arg Pro Asn Leu Thr Thr Gln Gly Thr Leu Lys
1 10 15

Gly Ile Ser Gly Arg Arg Ser 20

<210> 979

<211> 78

<212> PRT

<213> Homo sapiens

<400> 979

Arg His Leu Gln Val Gly Gly Gly Gln His Gln Cys Gly Gln Ala Cys 1 5 10 15

Leu Asp Ser Ser Tyr Arg Pro Leu Leu Cys Met Met Trp Glu Pro Gly 20 25 30

His Ser His Ala Pro Ser Arg Ala Gln Gly Cys Gly Ser Thr Thr Glu 35 40 45

His Pro Leu Ser His Cys Pro Pro Leu Pro Arg Ala Leu Pro Ser Pro 50 55 60

Pro Leu Leu His His Ser Ser Phe Lys Val Pro Leu Leu Tyr 65 70 75

<210> 980

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 980

Met Pro Leu Gln Arg Arg Val Lys Val Lys Thr Thr Ser Ser Arg Cys
1 10 15

Leu Pro Gly Thr Thr Trp Gly Leu Thr Leu Phe Ser Met Leu Cys Cys

Phe Trp Pro Leu Gly Ile Ala Ala Phe Tyr Phe Ser Gln Gly Thr Ser 35 40 45

25

Lys Ala Ile Ser Lys Gly Asp Phe Arg Leu Ala Ser Thr Thr Ser Arg 50 55 60

Arg Ala Leu Phe Leu Ala Thr Xaa Ala Ile Ala Val Gly Ala Gly Leu 65 70 75 80

Tyr Val Ala Val Val Val Ala Leu Ala Ala Tyr Met Ser Gln Asn Gly
85 90 95

His Gly

<210> 981

<211> 68

<212> PRT

<213> Homo sapiens

<400> 981

Met Pro Leu Gln Arg Arg Val Lys Val Lys Thr Thr Ser Ser Arg Cys 1 5 10 15

Leu Pro Gly Thr Thr Trp Asp Leu Leu Ser Ser Pro Cys Ser Ala Ala 20 25 30

Ser Gly His Trp Ala Leu Leu Pro Ser Thr Ser Pro Arg Gly Pro Ala 35 40 45

Arg Pro Ser Pro Lys Gly Thr Ser Ala Trp Pro Ala Pro Pro Pro Ala 50 55 60

Gly Pro Ser Ser 65

<210> 982

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

```
<223> Xaa equals any of the naturally occurring L-amino acids
 <400> 982
 Met Leu Leu Pro Leu Phe Thr Leu Leu Ile Leu Leu Leu Arg Val Phe
 Pro Lys Glu Ile Ile Gln Asn Arg Xaa Lys Leu Lys Ala Glu Lys Cys
 Trp Asn Met Thr Leu Phe Ile Ala Val Gly Lys Met Gly Gly Trp Gly
 Thr Trp Xaa Met Leu Glu Ile Xaa Ala Leu Cys Glu Gly Pro Val Gly
 Glu Asp Ala Leu
 <210> 983
 <211> 8
 <212> PRT
 <213> Homo sapiens
 <400> 983
 Arg Val Phe Pro Val Thr Thr Leu
  1
<210> 984
 <211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 984
 Met Leu Leu Pro Leu Phe Thr Leu Leu Ile Leu Leu Leu Arg Val Phe
                   5
                                       10
 Pro Lys Glu Ile Ile Gln Asn Arg Lys Lys Leu Lys Ala Glu Lys Cys
                                   25
 <210> 985
 <211> 10
 <212> PRT
 <213> Homo sapiens
 <400> 985
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser
```

<210> 986

```
<211> 10
<212> PRT
<213> Homo sapiens
<400> 986
Met Gly Leu Phe Leu Phe Leu Val Ser Ser
<210>. 987
<211> 56
<212> PRT
<213> Homo sapiens
<400> 987
Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser
Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala
Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu
Ile Ser Phe Leu Phe Ser Ala Trp
<210> 988
<211> 56
 <212> PRT
 <213> Homo sapiens
 <400> 988
Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser
 Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala
 Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu
 Ile Ser Phe Leu Phe Ser Ala Trp
      50
 <210> 989
 <211> 56
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 989
Ala Glu Xaa Ala Pro Leu His Phe His Leu Gly Asp Gly Glu Arg Leu
His Leu Lys Lys Lys Lys Lys Lys Lys Lys Pro Lys Gln Gly Trp
            2.0
Ala Arg Trp Leu Thr Pro Val Ile Ser Ala Leu Leu Glu Xaa Gly Ala
                            40
Gly Val Ser Pro Glu Val Met Ser
                        55
     50
<210> 990
<211> 29
<212> PRT
<213> Homo sapiens
<400> 990
Met Leu Val Ile Ile Ile Met Thr Ala Leu Val Ser His Val Pro Ser
                                   10 15
Val His Ser Val Pro His Ala Val Pro Phe Thr Ser Ser
             20
<210> 991
<211> 29
<212> PRT
<213> Homo sapiens
Met Leu Val Ile Ile Ile Met Thr Ala Leu Val Ser His Val Pro Ser
Val His Ser Val Pro His Ala Val Pro Phe Thr Ser Ser
 <210> 992
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (7) -
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
```

<400> 995

```
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 992
Val Phe Lys Thr Ile Arg Xaa Arg Glu Ile Ile Leu Tyr His Glu Asn
Ser Thr Gly Lys Thr His Pro His Asp Ser Leu Ile Ser His Trp Val
Pro Xaa Thr Thr Gln Gly Asn Tyr Gly Ser Tyr Lys Met Arg Phe Gly
Trp Gly His Arg Ala Arg Pro Tyr Gln Pro Pro Lys
<210> 993
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 993
Met Asp Ile Gln Gly Lys Ala Leu Tyr Ile Arg Phe Leu Leu Thr Leu
Cys Gln Met Val Val Ser Val Met Gly Lys Arg Xaa Gln Gly Arg Arg
Gly Leu Gly Gly Ala Ala Ala Val Gly Arg Glu Ile Cys Arg Arg Trp
Gly Cys Cys Val Thr
    50
<210> 994
<211> 12
<212> PRT
<213> Homo sapiens
<400> 994
Leu Cys Trp Thr Arg Ser Ser Val Ile Gly Ala His
<210> 995
<211> 53
<212> PRT
<213> Homo sapiens
```

```
Met Asp Ile Gln Gly Lys Ala Leu Tyr Ile Arg Phe Leu Leu Thr Leu 1 5 10 15
```

Cys Gln Met Val Val Ser Val Met Gly Lys Arg Arg Gln Gly Arg Arg 20 25 30

Gly Leu Gly Gly Ala Ala Ala Val Gly Arg Glu Ile Cys Arg Arg Trp \$35\$ 40 45

Gly Cys Cys Val Thr 50

<210> 996

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 996

Lys Gln Gly Ser Leu Leu Gly Trp Ser Arg Val Ile Met Val Arg Gly
1 5 10 15

Ala Gln Ser Tyr Xaa Lys Gly Val Leu Cys Arg His Trp Lys Lys Phe 20 25 30

Gly Phe Tyr Ser Lys Trp Asn Trp Lys Pro Leu Glu Cys Phe Gln Asn 35 40 45

Arg Ser Asp Val Ile 50

<210> 997

<211> 53

<212> PRT

<213> Homo sapiens

<400> 997

Met Arg Leu Ile Leu Phe Ala Met Ser Pro Lys Leu Leu Phe Leu Phe 1 5 10 15

Leu Phe Leu Tyr Ile Ser Val Lys Ser Phe Asp Leu Val Leu Ser Phe 20 25 30

Arg Ser Val Leu Phe Met Ser Asp Leu Ile His Cys Phe Tyr His Gln 35. 40 45

Leu His Phe Lys Leu 50

<210> 998

```
<211> 53
<212> PRT
<213> Homo sapiens
<400> 998
Met Arg Leu Ile Le
```

Met Arg Leu Ile Leu Phe Ala Met Ser Pro Lys Leu Leu Phe Leu Phe 1 5 10 15

Leu Phe Leu Tyr Ile Ser Val Lys Ser Phe Asp Leu Val Leu Ser Phe
20 25 30

Arg Ser Val Leu Phe Met Ser Asp Leu Ile His Cys Phe Tyr His Gln 35 40 45

Leu His Phe Lys Leu 50

<210> 999 <211> 79 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 999

Leu Gly Ile Trp Leu Ile Pro Gly Leu Arg Arg Ala Asn Pro Lys Ile 1 5 10 15

Ser Leu Glu Tyr Leu Met Val Pro Glu Asn Lys Tyr Ser Lys Asn Cys 20 25 30

Glu Xaa Met Leu Lys Gly Leu Arg Ser Gln Pro Glu Gly Ala Ala Asn  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Gln Ser Trp Asn Asn Ser Asn Lys Val Asn Lys Tyr Ser Ile Gly
50 55 60

Leu Leu Leu Asn Lys Cys Met Ile His Glu Ser Thr Leu Lys Asp 65 70 75

<210> 1000

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1000

Met Phe His Arg Phe Phe Ile Leu Ser Ala Leu Ser Arg Ile Arg Ala 1 5 10 15

Leu Thr Thr Phe Leu Asp Asp Leu Gly Met Thr His Gln Thr Leu Leu 20 25 30

Leu Leu Gly Pro Ser Ile Tyr Ser Phe Cys

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<210> 1001
<211> 43
<212> PRT
<213> Homo sapiens
<400> 1001
Met Phe His Arg Phe Phe Ile Leu Ser Ala Leu Ser Arg Ile Arg Ala
Leu Thr Thr Phe Leu Asp Asp Leu Gly Met Thr His Gln Thr Leu Leu
             20
Leu Leu Cly Pro Ser Ile Tyr Ser Phe Cys
                              40
         35
<210> 1002
 <211> 111
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 .<222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
  <222> (111)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <400> 1002
  Val Gln Val Leu Thr Gln Tyr Tyr Gln Ser Asn Ile Leu Asn Ile Leu
    1
```

Ser Gln Val Ile Cys Leu Ser Ile Val Tyr Phe Glu Gly Phe Leu Ser 20 25 30

Phe Thr Phe Asn Leu Phe Phe Ile Ser Ile Ser Ser Xaa Val Ala Leu 35 40 45

Ser Tyr Ser Tyr Pro Asp Ile His Leu Ile Ser Glu Gly Leu Asp Ile
50 55 60

Thr Leu Val Lys Met Gln Ser Asp Leu Ile Leu Phe Leu Lys Gln Thr 65 70 75 80

Ala Val Leu Leu Glu Arg Pro Arg Ala His Arg Phe Ser Thr Arg Val 85 90 95

Gly Tyr Xaa Val Ser Val His Xaa Ser Gly Ser Xaa Xaa Val Xaa 100 105 110

<210> 1003

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003

Met Leu Tyr Val Arg Leu Leu Lys Asn Thr Lys Ile Xaa Val Leu Ile 1 5 10 15

Leu Pro Leu Phe Ile Leu Phe Leu Thr Leu Phe Leu Phe Ile Pro Asn 20 25 30

Gly Phe Leu Phe Val Phe Val Ser Leu Tyr Phe 35 40

<210> 1004

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1004

Met Phe Ile Val Phe Ser Val Leu Leu Phe Phe Gln Phe Ala Ile
1 5 10 15

Cys Gln Phe Ala Asp Leu Ala Ile Phe Pro Leu Ser Met Cys Gln Leu 20 25 30

Cys Asn Leu Ser Ala Arg Leu Ala Ala Pro Ser Ala Arg Phe Glu Gly 35 40 45

Leu Gly Ile Asn Arg Thr Arg Lys Ala Glu Gly Ser Leu Pro Thr Thr 50 55 60

```
Ala Val Gln Leu Leu Pro Tyr Lys Ser Gln Ala Val Gln Val Gln His
65 70 75 80
```

Pro Gln Ala Val Ile Val Asp Lys Leu Ser Val Ile Ser Leu Arg Ser 85 90 95

Ile Cys Ile Asp Gln Leu Lys Phe Met Glu Met Glu Asn Ile Ile Lys
100 105 110

Pro Gly Tyr Val Thr Ser 115

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<210> 1005
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
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<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

<222> (63) <223> Xaa equals any of the naturally occurring L-amino acids

Ala Gln Leu Thr Asn Tyr Pro Pro Ala Met Arg Thr Tyr Val Tyr Glu 20 25 30

Cys His Cys Asp Lys Ser Thr Ser Arg Ala Thr Ala Gly Pro Ser Ile 35 40 45

Phe His Pro Gly Gly Val Xaa Gly Met Trp Xaa Ile Phe Ala Xaa Val 50 55 60

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<210> 1006
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<sup>&</sup>lt;211> 42

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;220>

<sup>&</sup>lt;221> SITE

<sup>&</sup>lt;222> (21)

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1006
His Ser Pro Glu Ser Cys Tyr Ser Phe Asn Leu Gly Ser Arg Met Arg
  1
Ile Ser Val Glu Xaa Lys Xaa Ala Lys Ser Asn Ser Ala Ala Asp Asn
                                2.5
Pro Glu Thr Leu Arg Lys Gly Tyr Val Xaa
        35
<210> 1007
 <211> 76
 <212> PRT
 <213> Homo sapiens
 <400> 1007
Met Leu Val Leu Leu Ser Leu Leu Ala Ser Gly Gly Leu Pro Leu Leu
 Leu Val Gly Asp Val Leu Ala Ser Lys Ser Ser Thr Val Leu Phe Leu
              20
 Pro Gly Asp Ser Ser Pro Gly Cys Ser Met Ile Thr Pro Leu Pro Pro
 Ser Arg Met Cys Leu Lys Ala Gly Ser Ser Gly Glu Gln Thr Val Val
      50
 Pro Leu Ser Leu Leu Arg Ser Lys Ser Ser Lys
 <210> 1008
 <211> 76
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
  <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids
  Met Leu Val Leu Leu Ser Leu Leu Ala Ser Gly Gly Leu Pro Leu Leu
                                       10
    1
```

```
Leu Val Gly Asp Val Leu Ala Ser Lys Ser Ser Thr Val Leu Phe Leu
```

Pro Gly Asp Ser Ser Pro Gly Cys Ser Met Ile Thr Pro Leu Pro Pro

Ser Arg Met Cys Leu Lys Ala Gly Ser Ser Gly Glu Gln Thr Val Val

Pro Leu Ser Leu Leu Leu Xaa Ser Lys Ser Ser Lys 70

<210> 1009

<211> 9

<212> PRT

<213> Homo sapiens

<400> 1009

Cys His Leu Gln His Ser Cys Arg Glu

<210> 1010

<211> 34

<212> PRT

<213> Homo sapiens

<400> 1010

Met Thr Ala Leu Phe Cys Ser Leu Leu His Ser Leu Val Ser Leu Leu

Leu Pro Thr Lys Trp Gly Gln Gly Lys Ala Phe Leu Thr Gly Pro Leu 20

Phe Ser

<210> 1011

<211> 10

<212> PRT

<213> Homo sapiens

<400> 1011

Phe Ser Cys Cys Leu Ser Leu Pro Ile Ser 5

<210> 1012

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1012

Met Trp Cys Leu Val Phe Cys Ser Cys Val Ser Leu Pro Arg Met Met

Ala Ser Ser Phe Ile His Asp Ile Ala Lys Asp Met Ile Ser Phe Leu 25

Phe Met Ser Ala Trp Tyr Tyr Thr Tyr Phe Asn Ser Phe Glu Ile Tyr 40

Arg Phe Gln Phe Thr Phe Ile Glu Tyr Ser Leu Trp Val Lys His His

Ala Ser Leu Pro Gly Val Gln

<210> 1013

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1013

Met Trp Cys Leu Val Phe Cys Ser Cys Val Ser Leu Pro Arg Met Met

Ala Ser Ser Phe Ile His Asp Ile Ala Lys Asp Met Ile Ser Phe Leu 25

Phe Met Ser Ala Trp Tyr Tyr Thr Tyr Phe Asn Ser Phe Glu Ile Tyr

Arg Phe Gln Phe Thr Phe Ile Glu Tyr Ser Leu Trp Val Lys His His 60

Ala Ser Leu Pro Gly Val Gln 65

<210> 1014

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1014

Ala Arg Arg Glu Gly Arg Ser Arg Thr Ala Val Gly Ser Thr Pro Ala 10

Ala Pro Leu Ser Leu Thr Arg Gly Gly Gln Cys Pro Ser Arg Gly Ser

Pro Leu Ala Leu Phe Gly His Pro Leu Ala Ser Gln Lys His Ser Glu

Thr Lys Thr Phe Pro Phe Pro Pro Pro His Met Val Leu Arg Leu Pro 50

Ala Ala Met Gln Leu Lys Gln Leu Ile Phe

```
<210> 1015
<211> 21
<212> PRT
<213> Homo sapiens
<400> 1015
Met Ser Leu Ser Leu Ile Ser Leu Ser Phe Leu Phe Pro Ala Gly Ala
                                    10
Gly Arg Arg Ser Cys
             20
<210> 1016
<211> 21
<212> PRT
<213> Homo sapiens
<400> 1016
Met Ser Leu Ser Leu Ile Ser Leu Ser Phe Leu Phe Pro Ala Gly Ala
1
Gly Arg Arg Ser Cys
           20
<210> 1017
<211> 25
<212> PRT
<213> Homo sapiens
<400> 1017
Met Leu His Trp Gly Val Leu Cys Ser Leu Phe Leu Met Leu Phe Asn
                  5
                                    10
Glu Gly Ala Ser Ala Ser Leu Gln Gln
             20
<210> 1018
<211> 55
<212> PRT
<213> Homo sapiens
<400> 1018
Met Leu His Trp Gly Val Leu Cys Ser Leu Phe Leu Met Leu Phe Asn
Glu Gly Ala Ser Ala Ser Leu Ser Asn Lys Arg Ser Met Arg Glu Asp
             20
                                 25
Arg Ala Val His Gly Tyr Gly Tyr Trp Thr Arg Ile Phe Gly Lys Val
                             40
                                                 45
         35
```

```
Lys Ala Asp His Trp Ile Trp
50 55
```

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<210> 1019
```

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019

Met Arg Ala Cys Leu Cys Ala Gly Val Cys Met Cys Xaa Ala Ser Cys 1 5 10 15

Leu Gly Leu Pro Met Asn Val Val Glu Cys Tyr Thr Trp Arg Val Leu 20 25 30

Val Phe His Gln Phe Gln Asp Glu Glu Leu His Asp Thr Val Asp Leu 35 40 45

Glu Thr Ile Pro Leu Glu Arg Gln Pro Arg Asp Val Gln His Pro Val 50 55 60

Ser Thr Arg Ile Leu Tyr Leu His Val Tyr Phe Val Ala Val Thr Leu 65 70 75 80

Thr Leu Ile Arg Ile Leu Gln Leu Trp Thr Glu Ala Phe Ser Pro
85 90 95

<210> 1020

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1020

Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys 1 5 10 15

Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val 20 25 30

Val Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu 35 40 45

Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr 50 60

Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe 65 70 . 75 80

Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg 85 90 95

Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu 100  $\cdot$  105 110

Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr 115 120 125

Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro 130 135 140

Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr 145. 150 155 160

Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
165 170 175

Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile 180 185 190

Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
195 200 205

Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro 210 215 220

Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu 225 230 235 240

Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
245 250 255

Gly Lys Thr Lys Asn 260

<210> 1021

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1021

Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
1 5 10 15

Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val 20 25 30

Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu Gln
35 40 45

Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr Ile 50 60

Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe Leu 65 70 75 80

Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Asp Val Arg Lys 85 90 95

Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu Pro

100 105 110

Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr Gln 115 120 125

Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro Asp 130 135 140

Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr Ile 145 150 155 160

Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly Lys 165 170 175

Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile Leu 180 185 190

Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val Leu
195 200 205

Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro Glu 210 215 220

Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu Leu 225 230 235 240

Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln Gly 245 250 255

Lys Thr Lys Asn 260

<210> 1022

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1022

Cys Val Leu Glu Pro Thr Ser Ser Gln Ser Ile Ala Pro Asp Leu Gly
1 5 10 15

Arg Glu Ser Thr Phe Ser Ile Gln Arg Asn Lys Asn Met Gln Phe Met 20 25 30

Val Val Leu Trp Thr Leu Thr Asp Cys Glu Gly Lys Val Tyr Pro Lys
35 40 45

Ala Val Ile Cys Arg 50

<210> 1023

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1023

Met Met Leu Pro Val Ile Ser Leu Phe Leu Ile Ser Leu His Leu Pro 1 5 10 15

Ile Phe Cys Phe Gln Arg Leu Leu Leu Phe Lys Gly Phe Leu Phe Ile 20 25 30

Ala Asn Ser Ser Asn Leu His Ile Lys 35. 40

<210> 1024

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1024

Met Met Leu Pro Val Ile Ser Leu Phe Leu Ile Ser Leu His Leu Pro
1 5 10 15

Ile Phe Cys Phe Gln Arg Leu Leu Leu Phe Lys Gly Phe Leu Phe Ile
20 25 30

Ala Asn Ser Ser Asn Leu His Ile Lys 35

<210> 1025

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1025

Lys Thr Val Met Leu Pro Ile Ala Gln Glu Val Gln Ser Pro Val Xaa 1 5 10 15

Xaa Xaa Cys Asp Lys Leu Ala Ala Asp Cys Ala His Glu Leu Arg Arg 20 25 30

His Gly Val Ser Cys Val Ser Leu Trp Pro Gly Ile Val Gln Thr Glu
35 40 45

Leu Leu Lys Glu His Met Ala Lys Glu Glu Val Leu Gln Asp Pro Val
50 60

```
Leu Lys Gln Phe Lys Ser Ala Phe Ser Ser Ala Glu Thr Thr Glu Leu 65 70 75 80
```

Ser Gly Lys Cys Val Val Ala Leu Ala Thr Asp Pro Asn Ile Leu Ser 85 90 95

Leu Ser Gly Lys Val Leu Pro Ser Cys Asp Leu Ala Arg Arg Tyr Gly 100 105 110

Leu Arg Asp Val Asp Gly Arg Pro Val Gln Asp Tyr Leu Ser Leu Ser 115 120 125

Ser Val Leu Ser His Val Ser Gly Leu Gly Trp Leu Ala Ser Tyr Leu 130 135 140

Pro Ser Phe Leu Arg Val Pro Lys Trp Ile Ile Ala Leu Tyr Thr Ser 145 150 155 160

Lys Phe

<210> 1026

<211> 45

<212> PRT

<213> Homo sapiens

<400> 1026

Met Ala Arg Trp Leu Leu Pro Cys Leu Pro Pro Leu His Ser Val Thr
1 5 10 15

Ser Trp Leu Leu Thr Val Pro Thr Ser Cys Gly Ala Met Gly Ser Ala 20 25 30

Val Cys Leu Cys Gly Arg Gly Leu Cys Arg Gln Asn Cys 35 40 45

<210> 1027

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1027

Leu Pro Pro Phe Pro Gln Cys Asp Lys Leu Ala Ala Asp Cys Pro Thr  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ser Cys Gly Ala Met Gly Ser Ala Val Cys Leu Cys Xaa Arg Gly Leu 20 25 30

Cys Arg Gln Asn Cys

35

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<210> 1028
<211> 45
<212> PRT
<213> Homo sapiens
<400> 1028
Met Ala Arg Trp Leu Leu Pro Cys Leu Pro Pro Leu His Ser Val Thr
Ser Trp Leu Leu Thr Val Pro-Thr Ser Cys Gly Ala Met Gly Ser Ala
Val Cys Leu Cys Gly Arg Gly Leu Cys Arg Gln Asn Cys
<210> 1029
<211> 29
<212> PRT
<213> Homo sapiens
<400> 1029
Met Asp Gln Phe Leu Gln Tyr Leu Leu Glu Cys Met Leu Leu Cys Thr
                                      10
Thr Ala Gly Ala Ser Gly Ala Thr Tyr Val Pro Thr Arg
             20
                                  25 '
<210> 1030
<211> 42
<212> PRT
<213> Homo sapiens
<400> 1030 ·
Met Asp Gln Phe Leu Gln Tyr Leu Leu Glu Cys Met Leu Leu Cys Thr
                                      10
Thr Ala Gly Ala Ser Gly Ala His Leu Cys Thr Asn Glu Met Thr Leu
             20
Leu Glu Ala Ile Leu Tyr Leu Gln Trp Met
         35
                             40
<210> 1031
<211> 53
<212> PRT
<213> Homo sapiens
<400> 1031
Cys Leu Ile Leu Gln Glu Glu Asn Arg Lys Glu Leu Ser Asn Leu Ala
                                     10
```

Asn Arg Tyr Lys Ile Asp Ser Arg Val Leu Ser Pro Thr Leu Gly Trp 20 25 30

Gln Pro Val Gly Gln Thr Pro Lys Thr Val Ala Asp Val Phe Phe Cys 35 40 45

Leu Pro Ser Leu Gly 50

<210> 1032

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1032

Met Leu Leu Phe His Val Trp Val Asp Leu Ala Cys Trp Gly Val Leu 1 5 10 15

Val His Ser Leu Lys Leu Ala Ser Phe His Trp Gly Leu Lys Ser Thr 20 25 30

Ser Thr Pro Thr Leu Val Met Ser Pro Glu Asp Pro Gly Asp Ser Thr 35 40 45

Val Asn Ile Val Ser Thr Leu Leu
50 55

<210> 1033

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1033

Val Trp Met Pro

<210> 1034

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1034

Met Leu Leu Phe His Val Trp Val Asp Leu Ala Cys Trp Gly Val Leu 1 5 10 15

Val His Ser Leu Lys Leu Ala Ser Phe His Trp Gly Leu Lys Ser Thr 20 25 30

Ser Thr Pro Thr Leu Val Met Ser Pro Glu Asp Pro Gly Asp Ser Thr 35 40 45

Val Asn Ile Val Ser Thr Leu Leu
50 55

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<210> 1035
<211> 491
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1035
Ala Ala Arg Val Gly Arg His Gly Arg Arg Arg Ser Ala Ala Met
Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu Ala
                                 25
Ala Cys Gly Trp Leu Leu Gly Ala Glu Xaa Xaa Yaa Pro Gly Ala Pro
Ala Ala Gly Met Arg Arg Arg Arg Leu Gln Glu Asp Gly Ile
Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val Ser
                     70
65
Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly Arg
Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn Pro
            100
Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met
His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln
    130
                        135
Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn Leu
                                        155
Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp Gly
                165
                                    170
```

190

Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe Val

Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro Asp

185

180

195 200 205

Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Pro Asn Asn 215 His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro Phe 250 Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro 260 Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Pro 280 Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn 290 Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr Ser 325 Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys Phe 345 Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu Thr 365 355 Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln Gly 390 395 Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His Asp 410 Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro Gly Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu Leu 455 Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met Glu Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe 485

<210> 1036 <211> 255 <212> PRT <213> Homo sapiens

<400> 1036

Leu Leu Trp Thr Met Ser Val Ile Phe Phe Ala Cys Val Val Arg
1 5 10 15

Val Arg Asp Gly Leu Pro Leu Ser Ala Ser Thr Asp Phe Tyr His Thr 20 25 30

Gln Asp Phe Leu Glu Trp Arg Arg Leu Lys Ser Leu Ala Leu Arg
35 40 45

Leu Ala Gln Tyr Pro Gly Arg Gly Ser Ala Glu Gly Cys Asp Phe Ser 50 55 60

Ile His Phe Ser Ser Phe Gly Asp Val Ala Cys Met Ala Ile Cys Ser 65 70 75 80

Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe Leu Glu Thr Leu Trp 85 90 95

Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys Ile Gly Leu Ala Ser 100 105 110

Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile Ile Gln Lys Val Lys 115 120 125

Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met Glu Cys Ser Leu Glu 130 135 140

Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro Ala Val Leu Thr Leu 145 150 155 160

Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn Gly His Thr Pro Met 165 170 175

His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu Pro Val Thr Ala Leu 180 185 190

Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys Ala Ala Leu Asn Leu 195 200 205

Ile Arg Gly Val His Leu Ala Glu His Ser Leu Gln Val Ala His Glu 210 215 220

Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro Phe Val Ala Cys Ile 225 230 235 240

Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu Asp Gln Thr Ser 245 250 255

<210> 1037

<211> 99

<212> PRT

<213> Homo sapiens

<220>



<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1037

Met Leu Leu Leu Val Phe Leu Val Ala Cys Phe Ile Asn Arg Lys 1 5 10  $15^{\circ}$ 

Cys Gln Lys Gln Arg Lys Lys Lys Pro Ala Glu Asp Ile Leu Glu Glu 20 25 30

Tyr Pro Leu Asn Thr Lys Val Glu Val Pro Lys Xaa His Pro Asp Arg 35 40 45

Val Glu Lys Asn Val Asn Arg His Tyr Cys Thr Val Arg Asn Val Asn 50 60

Ile Leu Ser Glu Pro Glu Ala Ala Tyr Thr Phe Lys Gly Ala Lys Val 65 70 75 80

Lys Arg Leu Asn Leu Glu Val Arg Val His Asn Asn Leu Gln Asp Gly 85 90 95

Thr Glu Val

<210> 1038

<211> 5

<212> PRT

<213> Homo sapiens

<400> 1038

Met Pro Val Leu Leu 1 5

<210> 1039

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1039

Met Leu Leu Leu Val Phe Leu Val Ala Cys Phe Ile Asn Arg Lys
1 5 10 .15

Cys Gln Lys Gln Arg Lys Lys Pro Ala Glu Asp Ile Leu Glu Glu 20 25 30

Tyr Pro Leu Asn Thr Lys Val Glu Val Pro Lys Arg His Pro Asp Arg
35 40 45

Val Glu Lys Asn Val Asn Arg His Tyr Cys Thr Val Arg Asn Val Asn 50 55 60

Ile Leu Ser Glu Pro Glu Ala Ala Tyr Thr Phe Lys Gly Ala Lys Val 65 70 75 80



Lys Arg Leu Asn Leu Glu Val Arg Val His Asn Asn Leu Gln Asp Gly 85 90 95

Thr Glu Val

<210> 1040

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1040

Leu Leu Asp Leu Thr Asn Arg Leu Val Thr Cys Ile Asp Gln Ser Lys
1 5 10 15

Pro Asn Ile Leu Ala Ser Leu Ser Leu Ala Glu Gln Thr Arg Val Gly
20 25 30

Ile Trp Val Gly Ala Phe Ser Ile Lys Asp Asn Leu Ser Leu Cys Ser 40 45

Gln Gly Glu His Leu Cys Phe Val Leu Lys Ala Gly Ser Pro Trp Phe 50 55 60

Ala Asn Cys Leu Gln Glu

<210> 1041

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1041

Met Leu Gln Tyr Thr Trp Leu Ile Leu Val Phe Leu Ser Ser Cys Leu 1 5 10 15

Ser Ala Thr Trp Phe Cys Lys Val Val Val Ala Ala Ile Gly Ser Thr 20 25 30

Val Gly Ser Ser Arg Leu His Phe Lys Arg Ser Gly Gln Cys Leu Arg 45

<210> 1042

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1042

Met Leu Gln Tyr Thr Trp Leu Ile Leu Val Phe Leu Ser Ser Cys Leu 1 5 10 15



Ser Ala Thr Trp Phe Cys Lys Val Val Val Ala Ala Ile Gly Ser Thr 20 25 30

Val Gly Ser Ser Arg Leu His Phe Lys Arg Ser Gly Gln Cys Leu Arg 35 40 45

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<210> 1043
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<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1043

Met Val Ala Val Asp Phe Ser Cys Leu Ser Phe Ile Leu Leu Gly Ile 1 5 10 15

Leu Val Leu Tyr Ile Tyr Phe Val Met Tyr Ala Cys Ser Ile Pro Thr 20 25 30

Leu Phe Ser Val Phe Tyr Xaa Glu Glu Met Leu Asn Leu Ser Lys Leu 35  $\stackrel{\sim}{}$  40 45

Ser Cys Ile Tyr 50

<210> 1044

<211> 13

<212> PRT

<213> Homo sapiens

<400> 1044

Cys Phe His Phe Phe Leu Cys Pro Ile Leu Val Leu Val 1 5 10

<210> 1045

<211> 1

<212> PRT

<213> Homo sapiens

<400> 1045

Cys

1

<210> 1046

<211> 37

<212> PRT <213> Homo sapiens

<400> 1046

Met Val Ala Val Asp Phe Ser Cys Leu Ser Phe Ile Leu Leu Gly Ile 1 5 10 15

Leu Val Leu Tyr Ile Tyr Phe Val Met Tyr Ala Cys Ser Ile Pro Thr 20 25 30

Leu Phe Ser Val Leu 35

<210> 1047

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1047

Asn Leu Ser Lys Ile Ile 1 5

<210> 1048

<211> 183

<212> PRT

<213> Homo sapiens

<400> 1048

Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr 1 5 10 15

Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu 20 25 30

Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu 35 40 45

Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val 50 55 60

Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys 65 70 , 75 80

Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser 85 90 95

Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg 100 105 110

Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe 115 120 125

Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met 130 135 140

Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val

155

160

Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His 165 170 175

Asn Ala Pro Gly Gly Gly His 180

<210> 1049

<211> 183

<212> PRT

<213> Homo sapiens

<400> 1049

COMMUNITY: CRINCI

Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr 1 5 10 15

Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu
20 25 30

Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu 35 40 45

Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val 50 55 60

Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys 65 70 75 80

Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser 85 90 95

Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg 100 105 110

Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe 115 120 125

Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met 130. 135

Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val 145 150 155 160

Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His 165 170 175

Asn Ala Pro Gly Gly Gly His 180

<210> 1050

<211> 31

<212> PRT

<213> Homo sapiens

<220>



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<221> SITE
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<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1050

Pro Gly Pro Pro Leu Ser Phe Phe Xaa Phe Phe Phe Phe Phe Phe Phe 1 5 10 15

Phe Phe Phe Phe Phe Phe Lys His Cys Ile Gln Val Ser Leu 20 25 30

<210> 1051

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1051

Met Asn His Cys Cys Ser Ser Gln Arg Phe Leu Asn Ile Leu Ser Phe 1 5 10 15

Cys Ile Ser Pro Pro Phe Pro Leu Thr Phe Ile Tyr Leu Ile Met Tyr
20 25 30

Leu Phe Ile Tyr Leu Tyr Thr Phe Ala Pro Phe Ser Thr Asn Thr Lys 35 40 45

Gln Ser Lys Lys Xaa Tyr Ile Tyr Ile Ser Val Tyr Val Leu 50 55 60

<210> 1052

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1052

Met Asn His Cys Cys Ser Ser Gln Arg Phe Leu Asn Ile Leu Ser Phe 1 5 10 15

Cys Ile Ser Pro Pro Phe Pro Leu Thr Phe Ile Tyr Leu Ile Met Tyr 20 25 30

Leu Phe Ile Tyr Leu Tyr Thr Phe Ala Pro Phe Ser Thr Asn Thr Lys

Gln Ser Lys Lys Lys Tyr Ile Tyr Ile Ser Val Tyr Val Leu 50 . 55 60

<210> 1053

<211> 75

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
Ala Asp Asn Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro
Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
Ala Val Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
                                                  45
Ser Ala Arg Asp Asn Gln Phe Ile Leu Leu Asn Trp His Ile Leu Asn
His Asp Ser Gln Gln Leu Gly Asn Ile Phe Phe
                     70
 65
<210> 1054
<211> 113
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1054
Cys Gly Val Phe Trp Leu Leu Ser Leu Leu Cys Cys Ile Lys Glu Gln
```

Gln Asp Arg Ala Leu Leu Val Asn Asn Ala Tyr Gln Gly Leu Ala Ser 35 40 45

Gln Phe Glu Gln Val Val Ala Leu Leu Gln Ser Ile Arg Xaa Cys

Leu Val Lys Val Ser Glu Leu Ala Ala Phe Lys Val Val Gln Glu 50 55 60

Glu Gly Gly Ser Gly Leu Ser Leu Ile Lys Glu Thr Tyr Gln Xaa His 65 70 75 80

Arg Gly Arg Thr Arg Arg Trp Trp Glu Asn Val Gly Met Leu Leu Val
85 90 95

Pro Pro Gly Phe Leu Xaa Arg Arg Ser Cys Arg Ser Trp Cys Xaa Val

Val

<210> 1055

<211> 2

<212> PRT

<213> Homo sapiens

<400> 1055

Ile Leu

1

<210> 1056

<211> 161

<212> PRT

<213> Homo sapiens

<400> 1056

Met Ala Glu Ala Ser Cys Gly Val Phe Trp Leu Leu Ser Leu Leu Cys

1 10 15

Cys Ilê Lys Glu Gl<br/>n Gl<br/>n Phe Glu Gl<br/>n Val Val Ala Leu Leu Gl<br/>n 20  $\phantom{000}25\phantom{000}$  30

Ser Ile Arg Leu Cys Gln Asp Arg Ala Leu Leu Val Asn Asn Ala Tyr 35 40 45

Gln Gly Leu Ala Ser Leu Val Lys Val Ser Glu Leu Ala Ala Phe Lys 50 55 60

Val Val Val Glu Glu Glu Gly Gly Ser Gly Leu Ser Leu Ile Lys Glu 65 70 75 80

Thr Tyr Gln Leu His Arg Asp Pro Glu Val Val Glu Asn Val Gly 85 90 95

Met Leu Val His Leu Ala Ser Tyr Glu Glu Ile Leu Pro Glu Leu 100 105 110

Val Ser Ser Met Lys Ala Leu Leu Gln Glu Ile Lys Glu Arg Phe 115 120 125

Thr Ser Ser Leu Glu Leu Val Ser Cys Val Glu Lys Val Leu Leu Arg

Leu Glu Ala Ala Thr Ser Pro Ser Pro Leu Gly Gly Glu Ala Ala Gln 145 150 155 160

Pro

- <210> 1057
- <211> 491
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (42)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (43)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (44)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1057
- Ala Ala Arg Val Gly Arg His Gly Arg Arg Arg Arg Ser Ala Ala Met

  1 10 15
- Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu Ala 20 25 30
- Ala Cys Gly Trp Leu Leu Gly Ala Glu Xaa Xaa Yaa Pro Gly Ala Pro 35 40 45
- Ala Ala Gly Met Arg Arg Arg Arg Leu Gln Glu Asp Gly Ile
  50 55 60
- Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val Ser 65 70 75 80
- Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly Arg 85 90 95
- Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn Pro 100 105 110
- Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met 115 120 125
- His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln 130 135 140
- Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn Leu 145 150 155 160

465

Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp Gly 165 170 Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe Val 185 Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro Asp 200 Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn Asn His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro Phe Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Pro Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp 310 315 Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr Ser 335 Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys Phe 345 Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu Thr 365 Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln Gly 385 395 Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His Asp 410 Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro Gly 420 425 Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu Leu 450 455 460 Glu Ser Phe Ser Glu Arg Lys Glu Glu Lys Glu Glu Leu Met Glu

475

470

## Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe 485 490

```
<210> 1058
<211> 79
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1058
Met Arg Leu Ala Ser Ser Leu Ser Val Phe Pro Leu Leu Pro Xaa Thr
Cys Gly His Ser Xaa Ala Leu Leu Pro Ser Ser Ile Gly Gln His Ser
Glu Thr Phe Thr Arg Cys Arg Pro Leu Thr Phe Pro Val Phe Arg Thr
Xaa Lys Pro Met Asn Pro Tyr Glu Ile Thr Gln Phe Cys Gly Ile Leu
Xaa Xaa Ala Thr Gln Thr Gly Leu Lys Thr Gly Thr Leu His Gly
65
                     70
                                         75
<210> 1059
```

<sup>&</sup>lt;211> 20

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 1059

Arg Glu Lys Ser Ser Leu Ser Val Pro Val Leu Val Cys Leu Cys Cys 1 5 10 15

Tyr Asn Arg Ile 20

<210> 1060

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1060

Leu Val Pro Leu Val Phe Ser Leu Leu Val Gln Ser Cys Lys Gln Val
1 5 10 15

Tyr Arg Ser Ile Ala Met Lys Phe Val Pro Cys Leu Leu Val Thr 20 . 25 30

Leu Ser Cys Leu Gly Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly 35 40 45

Ser Thr Gly Glu Glu Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys 50 55 60

Thr Met Arg Pro Ser Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu 65 70 75 80

Arg Val Asp Cys Arg Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg 85 90 95

Gly Gln Pro Ser Met Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr 100 105 110

Trp Asn Gln Ala Leu Gln Glu Leu Arg Arg Leu His His Ala Cys Gln
115 120 125

Gly Ala Pro Val Leu Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln 130 135 140

Ala His Met Gln Gln Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro 145 150 155 160

Asn Gln Gln Pro Glu Ala Gly Thr Pro Ser Leu Arg Pro Lys Ala Thr 165 170 175

Val Lys Leu Thr Glu Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu 180 185 190

Leu Gly Lys Ala Lys Pro Thr Thr Arg Pro Thr Ala Lys Pro Thr Gln
195 200 205

Pro Gly Pro Arg Pro Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp 210 215 220

Glu His Cys Trp Lys Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser 225 230 235 240

Phe Phe Arg Gly

```
<210> 1061
```

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1061

Met Arg Leu Ala Ser Ser Leu Ser Val Phe Pro Leu Leu Pro Leu Thr 1 5 10 15

Cys Gly His Ser Leu Ala Leu Leu Pro Ser Ser Ile Gly Gln His Ser 20 25 30

Glu Thr Phe Thr Arg Cys Arg Pro Leu Thr Phe Pro Val Phe Arg Thr 35 40 45

Ile Asn Gln Val Asn Pro Tyr Lys Ser Pro Ser Leu Trp Tyr Ser Val 50 55 60

Ile Ala Thr Gln Thr Asp 65 70

<210> 1062

<211> 304

<212> PRT

<213> Homo sapiens

<400> 1062

Thr Cys Pro Leu Leu Arg Asn Ser Ser His Ala Glu Pro Ala His Arg

1 10 15

Gln Asp Gly Asp Leu Ala Leu Thr Pro Cys Leu Gly Pro Gly Leu Gly 20 25 30

Asn Pro Gly Arg Val Arg Gln Lys Ala Gly Asn Arg Ser Ser Gly Gly
35 40 45

Tyr Ser Leu Arg Gly Gln Gln His Leu Gly Pro Leu Leu Ala Thr 50 55 60

Ala Gly Ala Ala Gly Ala Arg Glu Arg Gly Gln Ala Leu His Gly Val 65 70 75 80

Glu Met Val Ala Val Arg Ala Asp Val Trp His Val Arg Gly Arg Trp 85 90 95

Arg Gln Leu Gly His Arg Pro Val Ala Arg Leu His Gln Leu Phe Ala
100 105 110

Val Val Leu Phe Gln Gln Leu Leu Gln Gly Arg Ser Ile Leu Phe Leu 115 120 125

Leu Cys Asp Gln Ala His Gln Asp Pro Asn Gly Val Leu Ile Gly Ile 130 135 140 Leu Ser Pro Val Gly Arg Val Asp Ser Thr Ala Ser Thr Ser Arg Ala 145 150 155 160

Gly Pro Asp Leu Leu Val Arg Arg Ala Val Val Ala Leu Pro Leu Glu 165 170 175

Glu Val Ala His Gln Asp Ala Gln Gln Pro His Glu Ala Glu Asp Arg 180 185 190

Asp Asp Gly Asp Asp Arg Val Leu Gly Gly Cys Leu Leu Trp Ala Thr
195 200 205

Cys Pro Gly Ala Val Pro Arg Leu Pro Cys Leu Thr Thr Ala Ala Gly 210 215 220

Pro Cys Cys His Leu His Ala Thr Ser Gly Pro Pro Pro Pro Leu Ile 225 230 235 240

Thr Ala Met Ser Thr Gln Arg Cys Pro Gly Thr Trp Leu Thr Trp Asn 245 250 255

Ala Gly Asn Pro Pro Arg Pro Lys Pro Pro Arg Pro Ala Val Ser Thr 260 265 270

Glu Cys Ile Ser Ser Cys His Ala His Leu Gly Leu Gln Pro Pro 275 280 285

Lys Ala Ala Thr Gly Met Gly Leu Ala Trp Ala Gly Ala Pro Cys Ser 290 295 300

<210> 1063

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1063

Met Gly Gly Cys Leu Leu Ser Leu Ser Leu Cys Phe Val Pro Val Val  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Arg Leu Ala Ala Ser Val Ala Arg Trp Ala Trp Leu Glu Pro Trp Val 20 25 30

Arg Gln Val Ala Gly Gly Asp Arg Glu Arg Leu Arg Gly Lys Trp Trp 35 40 45

His Leu Leu Leu 50

<210> 1064

<211> 52

<212> PRT

<213> Homo sapiens

```
<400> 1064
  Met Gly Gly Cys Leu Leu Ser Leu Ser Leu Cys Phe Val Pro Val Val
                                       10
  Arg Leu Ala Ala Ser Val Ala Arg Trp Ala Trp Leu Glu Pro Trp Val
                                   25
 Arg Gln Val Ala Gly Gly Asp Arg Glu Arg Leu Arg Gly Lys Trp Trp
 His Leu Leu Leu
      50
 <210> 1065
 <211> 58
 <212> PRT
 <213> Homo sapiens
 Asp Leu Ser Gly Gly Glu Trp Asn Val Thr Thr Arg Thr Arg Leu Trp
 Glu Ile Gln Pro His Leu Cys Phe Val Met Ile Leu Lys Leu Asp Phe
              20
                                   25
 Ser Cys Arg Asp Phe Leu Ser Ile Leu Pro Gly Val Leu Thr Tyr Ser
          35
                               40
 Leu Pro Val Lys Arg Phe Lys Lys Asn
      50
                           55
 <210> 1066
 <211> 21
 <212> PRT
 <213> Homo sapiens
 <400> 1066
 Cys Phe Phe Gln Leu Ser Pro Glu Glu Val Ser Trp Cys Pro Asn Val
 Gly Ser Ser Phe Asp
              20
 <210> 1067
 <211> 37
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids
. <400> 1067
```

```
Met Gly Lys Leu Xaa Leu Thr Leu Leu Cys Leu Leu Gl<br/>n Leu Leu 1 5 10 15
```

Pro Pro Glu Val Tyr Tyr Ser Arg Trp Gly Ala Asn Met Met Ala Gln 20 25 30

Thr Pro Leu Asn Pro 35

<210> 1068

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1068

Met Gly Lys Leu Thr Leu Thr Leu Leu Cys Leu Leu Gln Leu Leu  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Pro Pro Glu Val Tyr Tyr Ser Arg Trp Gly Ala Asn Met Met Ala Gln 20 25 30

Thr Pro Leu Asn Ser Met Arg Ser Pro Trp Pro Met Glu Ile Leu Leu 35 40 45

Phe Phe Pro Leu Phe Ser Ser Ser Val Phe Ile Gly Ser Ala 50 55 60

<210> 1069

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1069

Met Ser Leu Asp Ser Leu Val Leu Val Lys Ala Leu Phe Cys Phe Thr 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Phe Val Val Gln Ile Thr Leu Ser Asn Ile Ser Ser Thr Asn Val Ser 20 25 30

Ile Leu Val Phe Val His Thr Ala Ile Thr Ser Pro Leu Gln Thr Phe 35 40 45

Gln Phe Trp His Tyr Glu Glu Val Ala Val Asn Leu Lys Tyr Leu 50 55 60

<210> 1070

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1070

Met Ser Leu Asp Ser Leu Val Leu Val Lys Ala Leu Phe Cys Phe Thr
1 5 10 15

```
Phe Val Val Gln Ile Thr Leu Ser Asn Ile Ser Ser Thr Asn Val Ser 20 25 30
```

Ile Leu Val Phe Val His Thr Ala Ile Thr Ser Pro Leu Gln Thr Phe 35 40 45

Gln Phe Trp His Tyr Glu Glu Val Ala Val Asn Leu Lys Tyr Leu 50 60 .

```
<210> 1071
<211> 2
<212> PRT
<213> Homo sapiens
<400> 1071
Leu Gln
1
```

```
<210> 1072
<211> 2
<212> PRT
<213> Homo sapiens
<400> 1072
Leu Gln
1
```

<210> 1073

```
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
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<223> Xaa equals any of the naturally occurring L-amino acids

Leu Cys Val Phe Trp Phe Lys Ser Cys Thr Tyr Ile Leu Ala Leu Leu 20 25 30

```
<210> 1074
 <211> 261
 <212> PRT
<213> Homo sapiens
 <220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (237)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (239)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (240)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (253)
 <223> Kaa equals any of the naturally occurring L-amino acids
 <400> 1074
 Thr Val Ala Asp Val Arg Arg Pro Phe Ala Gln Val Asn Val Leu Ala
                   5
   1
                                       10
 Glu Glu Val Leu Ile Tyr Arg Ile Val Leu Asn Asp Ile Val Gly Asp
 Val Val Gln Asp His Gln Val Arg Leu Arg Arg Lys Asp Asp Ala Val
 Ile Arg Gln Leu Glu Ala Thr Met Leu Val Gly Arg Lys His Arg His
```

Gly Asp Val Leu Val Arg Glu Thr Thr Val Ser Asp Ala Arg Pro Glu
65 70 75 80

Asp Arg Val His Phe Arg His Val Cys Xaa Pro Gln Xaa Lys Arg Val 85 90 95

Ser Leu Leu Asp Val Val Ile Ala Ala His Arg Leu Ile His Thr Lys 100 105 110

Gly Thr His Lys Ala Asn Tyr Cys Arg Arg His Thr Val Thr Arg Val 115 120 125

Arg Val Asp Val Val Arg Thr Glu Ala Arg Phe Lys Gln Leu Gly Arg 130 135 140

Gly Ile Thr Phe Pro Asp Ser Pro Leu Thr Arg Thr Glu His Thr Asp 145 150 155 160

Arg Phe Arg Pro Phe Phe Phe Gln Xaa Gly Phe Glu Phe Leu Phe His 165 170 175

His Ile Glu Gly Leu Ile Pro Gly Asp Trp Gly Lys Phe Ala Phe Phe 180 185 190

Val Ile Phe Thr Val Phe His Thr Gln Gln Arg Leu Arg Gln Thr Val 195 200 205

Phe Thr Val His Asp Phe Gly Gln Glu Ile Ala Leu Asn Ala Val Gln 210 215 220

Ala Thr Val Asn Arg Cys Val Arg Val Ala Leu Thr Xaa Gln Xaa Xaa 225 230 235 240

Val Pro Ala Ala Phe Arg Pro Glu Arg Arg Asn Gln Xaa Arg Arg Thr 245 250 255

Thr Gln Phe Ala Ile 260

<210> 1075

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1075

Phe Tyr Thr Asn Val Thr Tyr Lys Ser Asp Ala Thr Thr Leu Arg Phe 1 5 10 15

Pro Gly Arg Cys Asp Phe Ser Ser Ala Trp Glu Val Asp Leu His Gln 20 25 30

Pro Phe Gln Cys Ser Ala His Pro Gly Ala Gly Ile Thr Ala Pro His 35 40 45

Leu Leu Gly Glu Lys Pro Gly Arg Pro Glu Glu Val Gly 50 55 60

```
<210> 1076
<211> 54
<212> PRT
<213> Homo sapiens
<400> 1076
Met Gly Leu Arg Gln Gln Leu Glu Leu Lys Leu Lys Leu Ile Leu Leu
Leu Cys Val Phe Trp Phe Lys Ser Cys Thr Tyr Ile Leu Ala Leu Leu
Phe Ser Val Val Pro Glu Arg Trp Trp Val Ala Ile Leu Val Gly Lys
                                                   45
Ser Glu Phe Ser Tyr Leu
     50
<210> 1077
<211> 5
<212> PRT
<213> Homo sapiens
<400> 1077
Gln Tyr Leu Leu Ile
  1
<210> 1078
<211> 30
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1078
Met Xaa Ala Ser Gln Tyr Ile Leu Phe Phe Leu Gln Xaa Leu Gly Xaa
Lys Leu Gln Phe Gln Gly Ile Ser Ser Gln Gln Gln Val Glu
            . 20
                                  25
```

```
<210> 1079
<211> 30
<212> PRT
<213> Homo sapiens
<400> 1079
Met Arg Ala Ser Gln Tyr Ile Leu Phe Phe Leu Gln Phe Leu Gly Phe
                                     10
Lys Leu Gln Phe Gln Gly Ile Ser Ser Gln Gln Gln Val Glu
<210> 1080
<211> 7
<212> PRT
<213> Homo sapiens
<400> 1080
Met Phe Gly Cys Pro Phe Cys
<210> 1081
<211> 261
<212> PRT
<213> Homo sapiens
<400> 1081
Gly Ile Phe Arg Ser Leu Arg Val Leu Phe Pro Leu Phe Ser Val Gly
Arg Pro Gln Phe Ala Arg Ser Leu Ser Ala Ala Pro Gln Leu Ser Asp
Thr Ala Asp Thr Met Gly Phe Gly Asp Leu Lys Ser Pro Ala Gly Leu
         35
Gln Val Leu Asn Asp Tyr Leu Ala Asp Lys Ser Tyr Ile Glu Gly Tyr
Val Pro Ser Gln Ala Asp Val Ala Val Phe Glu Ala Val Ser Ser Pro
                     70
                                         75
 65
Pro Pro Ala Asp Leu Cys His Ala Leu Arg Trp Tyr Asn His Ile Lys
Ser Tyr Glu Lys Glu Lys Ala Ser Leu Pro Gly Val Lys Lys Ala Leu
                                105
            100
                                                     110
Gly Lys Tyr Gly Pro Ala Asp Val Glu Asp Thr Thr Gly Ser Gly Ala
```

Thr Asp Ser Lys Asp Asp Asp Ile Asp Leu Phe Gly Ser Asp Asp

```
Glu Glu Glu Ser Glu Glu Ala Lys Arg Leu Arg Glu Glu Arg Leu Ala 145 150 155 Leu Ala 160

Gln Tyr Glu Ser Lys Lys Ala Lys Lys Pro Ala Leu Val Ala Lys Ser 165 170 175
```

Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu Thr Asp Met Ala

Lys Leu Glu Glu Cys Val Arg Ser Ile Gln Ala Asp Gly Leu Val Trp 195 200 205

Gly Ser Ser Lys Leu Val Pro Val Gly Tyr Gly Ile Lys Lys Leu Gln 210 215 220

Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr Asp Met Leu Glu 225 230 235 235

Glu Gln Ile Thr Ala Phe Glu Asp Tyr Val Gln Ser Met Asp Val Ala 245 250 255

Ala Phe Asn Lys Ile 260

<210> 1082

<211> 11

<212> PRT

<213> Homo sapiens

. <400> 1082

Phe Leu Leu Ser Leu His Leu Ala Ala Leu Gln
1 5 10

<210> 1083

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1083

Met Pro Gly Gly Thr Pro Cys Leu Ala Val Pro Ser Ala Asn Thr Glu
1 5 10 15

Ile Lys Leu Trp Ile Trp Tyr Gln Glu Trp Trp Leu Met Pro Val Ile 20 25 30

Pro Ala Leu Trp Glu Ala Glu Asn Ser 35 40

<210> 1084

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1084

```
Gly Gly Glu Arg His Leu His Arg Thr His Pro Arg Leu Pro Gly His 1 5 10 15
```

- Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val Cys Gly 20 25 30
- Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp ' 35 40 45
- Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu 50 55 60
- Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln 65 70 75 80
- Arg Val Phe Leu Cys Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His
  85 90 95
- Leu Ser Gly Gly Val Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro
  100 105 110
- Leu Ala Arg Pro Gly Ala Val Glu Ser Cys Asn His Glu Val Cys Ala 115 120 125
- Gln Thr Gly Glu Thr Val Gln Pro Leu Met Ala Arg Arg 130 135 140
- <210> 1085
- <211> 45
- <212> PRT
- <213> Homo sapiens
- <400> 1085
- Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met
  1 5 10 15
- Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile 20 25 30
- Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe 35 40 45
- <210> 1086
- <211> 136
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (1)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (3)
- <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1086
Xaa Tyr Xaa Ser Cys Arg Lys Xaa Tyr Leu Thr Tyr Gly Xaa Asn Ser
Arg Val Asp Pro Arg Val Arg His Val Cys Gly Val Arg Ala His Gly
Ala Gly Val Pro His Leu Val Ser Gly Gly Asp Glu Val Ser Pro Gly
Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu Gln Pro Val His Gln
     50
Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln Arg Val Phe Leu Cys
Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His Leu Ser Gly Gly Val
Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro Leu Ala Arg Pro Gly
                                 105
            100
Ala Val Glu Ser Cys Asn His Glu Val Cys Ala Gln Thr Gly Glu Thr
        115
                            120
                                                 125
Val Gln Pro Leu Met Ala Arg Arg
    130
                        135
<210> 1087
<211> 45
<212> PRT
<213> Homo sapiens
```

<400> 1087

Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met 1 5 10 15

Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile 20 25 30

Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe 35 40 45

<210> 1088 <211> 177

```
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1088
Leu Asp Ile Lys Val Leu Gln Val Pro Thr Arg Leu Arg Ser Pro Ala
Gly Phe Thr Gln Trp Ile Gln His Trp Gly Ser Arg Trp Ser Cys Leu
Pro Val Pro Arg Cys Ala Pro Ala Leu Leu Ser Pro Trp Val Val Asp
Gly Thr Gly Arg Cys Gly Ala Gly Gly Gly Ala Pro Trp Gly Gly Ser
Gly Arg Thr Gly Ala His Gly Gly Trp Gly Glu Gly Gln Ala Trp Arg
Ala Ala Gly Pro Glu Pro Cys Pro Ala Xaa Arg Gln Leu Arg Pro Ser
Glu Lys Ser Ser Thr Ala Ala Gly Pro Gly Ala Lys Ala Leu Thr
                                105
Ala Trp Gly Arg Pro Ala Ala Leu Ser Gly Ala Pro Pro Ser Pro Arg
Pro Pro Gly Thr His Ser Gly Pro Gln Ala Leu Arg Ala Ala Pro Val
Pro Ala Arg Pro Ser Pro Ser Ala Pro Pro Arg Lys Leu Arg Glu Leu
Ala Pro Ala Leu Ala Ser Pro Glu Arg Gly Ser Tyr Xaa Ala Ala Ala
                                    170
                165
Gly
```

<210> 1089 <211> 414 <212> PRT <213> Homo sapiens <220> <221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (410) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1089 Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val Cys Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val . 40 Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro 75 Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn 120 Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro Val Met 135 Val Trp Val His Gly Gly Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr 150 Asp Gly Ser Ala Leu Ala Ala Tyr Gly Asp Val Val Val Xaa Thr Val 170 165 Gln Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His . 180 185 Ala Pro Gly Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp 200 Val Gln Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr Val Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu 230 235 Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser Gly Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro Leu Ala 265

Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Fro Ala Glu

Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu Leu Val Leu Ser 295

Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr Val Asp Gly Thr Val 315 310

Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys Glu Lys Pro Phe His Ser 330

Val Pro Phe Leu Met Gly Val Asn Asn His Glu Phe Ser Trp Leu Ile

Pro Arg Gly Trp Gly Leu Leu Asp Thr Met Glu Gln Met Ser Arg Glu 360

Asp Met Leu Ala Ile Ser Thr Pro Val Leu Thr Ser Leu Asp Val Pro 375 370

Pro Glu Met Met Pro Thr Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser 395

Asp Ala Gln Ala Lys Cys Gln Ala Phe Xaa Gly Ile His Gly

<210> 1090

<211> 571

<212> PRT

<213> Homo sapiens

<400> 1090

Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val

Cys Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala 20

Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val 40

Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro 50

Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro

Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met 85

Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn 105 100

Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn 115

Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro Val Met 140 135 130

- Val Trp Val His Gly Gly Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr 145 150 155 160
- Asp Gly Ser Ala Leu Ala Ala Tyr Gly Asp Val Val Val Val Thr Val
  165 170 175
- Gln Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His 180 185 190
- Ala Pro Gly Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp 195 200 205
- Val Gln Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr 210 215 220
- Val Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu 225 230 235 240
- Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser Gly 245 250 255
- Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro Leu Ala 260 265 270
- Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser Pro Ala Glu 275 280 285
- Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu Leu Val Leu Ser 290 295 300
- Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr Val Asp Gly Thr Val 305 310 315 320
- Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys Glu Lys Pro Phe His Ser 325 330 335
- Val Pro Phe Leu Met Gly Val Asn Asn His Glu Phe Ser Trp Leu Ile 340 345 350
- Pro Arg Gly Trp Gly Leu Leu Asp Thr Met Glu Gln Met Ser Arg Glu 355 360 365
- Asp Met Leu Ala Ile Ser Thr Pro Val Leu Thr Ser Leu Asp Val Pro 370 375 380
- Pro Glu Met Met Pro Thr Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser 385 390 395 400
- Phe Ile Asn Val Pro Thr Val Ser Phe Ser Arg Tyr Leu Arg Asp Ser 420 425 430
- Gly Ser Pro Val Phe Phe Tyr Glu Phe Gln His Arg Pro Ser Ser Phe 435 440 445
- Ala Lyś Ile Lys Pro Ala Trp Val Lys Ala Asp His Gly Ala Glu Gly 450 455 460

```
Ala Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg Leu 465 470 475 480
```

Ala Phe Pro Glu Ala Thr Glu Glu Glu Lys Gln Leu Ser Leu Thr Met 485 490 495

Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn Ser Lys 500 505 510

Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln Tyr Leu Glu 515 520 525

Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg Glu Ala Trp Met 530 540

Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile Gln Gln Trp His Gln 545 550 555 560

Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp Leu 565 570

<210> 1091.

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091

Met Ile Ser Ser Leu Leu Ser Lys Ala Val Leu Ser Leu Trp Ile Ser 1 5 10 15

Val Phe Ser Trp Asn Val Leu Gly Cys Lys Leu Lys Thr Ile Ile
20 25 30

Leu Gln Cys Phe Lys Glu Ala Ser Asp Leu Val Leu Arg Glu Arg Tyr 35 40 45

Leu Gly Val Val Gln Ala Leu Ser Asp Asp Phe Ser Phe Cys Phe Thr 50 55 60

Ile Leu Ser Xaa

<210> 1092

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1092

Val Ser Lys Leu Phe Asp Leu Val Arg Val Ala Leu Trp Glu Ser Thr 1 5 10 15

```
Phe Leu Ser Leu Ser Leu Ser Val Pro Ser Val Cys Ala Met Phe Arg 20 25 30
```

Ser Ser Glu Glu Ser Lys Ile Ser Ser Glu Phe Lys Ile Ile Phe Val 35 40 45

Phe Leu Leu Phe Asn Val Met Glu 50 55

<210> 1093

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1093

Met Ile Ser Ser Leu Leu Ser Lys Ala Val Leu Ser Leu Trp Ile Ser 1 10 15

Val Phe Ser Trp Asn Val Leu Gly Cys Lys Lys Leu Lys Thr Ile Ile
20 25 30

Leu Gln Cys Phe Lys Glu Ala Ser Asp Leu Phe Leu Arg Glu Arg Tyr 35 40 45

Leu Gly Val Val Gln Ser Leu Ser Asp Asp Phe Phe Leu Leu His 50 55 60

His Pro

<210> 1094

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094

Arg Trp Arg Gly Ala Ser Thr Pro His Arg Asp Tyr Leu Ser Xaa Arg
1 5 10 15

Tyr Cys Ala Cys Gly

<210> 1095

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1095

```
Trp Gln Ile Leu Leu Ile Ala Leu Leu Leu Ile
1 5 10
```

```
<210> 1096
<211> 38
<212> PRT
<213> Homo sapiens
<400> 1096
Met Leu Arg Trp Arg Leu Leu Ala Thr Ala Leu Ile Ala Leu Cys Arg
                                      10
Arg Ser Ala Ser Ser Val Ala Ser Gly Glu Pro Pro Asp Ser Pro Pro
                                  25
Cys Pro Trp Arg Arg Arg
         35
<210> 1097
<211> 76
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097

Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg 1 5 10 15

Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe 20 25 30

Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe 35 40 45

Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Xaa Leu Val 50 55 60

```
<210> 1098
<211> 54
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE -
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Pro
Pro Gly Arg Ala Ala Arg Gly Asp Pro Xaa Xaa Ala Ser Arg Ala Gly
             20
                                 25
Pro Tyr Pro Xaa Gly Pro Ala Xaa Ala Ala Phe Xaa Arg Gln Xaa Leu
                              40
         35
```

Asn Val Leu Ala Ser Xaa Xaa Gln Pro Xaa Gly Ile

65

Xaa Leu Gly Thr Thr Trp

50

```
<210> 1099
<211> 148
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1099
Leu Xaa Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu
Xaa Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro
                             25
Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser
                             40 -
Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn
Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile
Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Ile Phe
                                    90
Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro Phe Leu Ser Trp Pro
                                105
Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly Val Leu Phe Met Ala
                          120
Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala Thr Gly Gln Ser Arg
                                            140 -
Met Ser Gly His
145
<210> 1100
<211> 149
<212> PRT
<213> Homo sapiens
<400> 1100
Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg
                                     10
Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe
```

25

20

Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe 35 40 45

Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val 50 55 60

Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val 65 70 75 80

Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Ile 85 90 95

Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro Phe Leu Ser Trp 100 . 105 110

Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly Val Leu Phe Met 115 120 125

Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala Thr Gly Gln Ser 130 135 140

Arg Met Ser Gly His 145

<210> 1101

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1101

Met Ile Leu Arg Gly Val Tyr Ser Met Val Pro Ile Tyr Thr His Met
1 5 10 15

Ile Phe Leu Phe Thr Phe Phe Leu Thr Ile Ser Gly Lys Tyr Phe Lys 20 25 30

Ile Phe Glu Lys His Ser Arg Ile 35 40

<210> 1102

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1102

Met Ile Leu Arg Gly Val Tyr Ser Met Val Pro Ile Tyr Thr His Met
1 5 10 15

Ile Phe Leu Phe Thr Phe Phe Leu Thr Ile Ser Gly Lys Tyr Phe Lys
20 25 30

Ile Phe Glu Lys His Ser Arg Ile 35 40

```
<210> 1103
<211> 56
<212> PRT
<213> Homo sapiens
<400> 1103
Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys
Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu
Ser Lys Ser Pro Lys Tyr His Pro Val Phe Leu Val Ile Ile Met
                        40
                , .
Ala Arg Ser Ser Gln Leu Lys Arg
<210> 1104
<211> 106
<212> PRT
<213> Homo sapiens
<400> 1104
Gln Gly Phe Ile Phe Trp Thr Gln Tyr Asn Ile Gly Tyr Ile Ser Leu
                                    10
Arg Ser Ile Gly Phe Gln His Lys Ser Leu Pro Ile Arg Lys Ser Lys
Trp Arg Lys His Gln Ile Ile Ile Ile Thr Gln Gln Lys Cys Gly
Asp Trp Gln Trp Phe Trp Gly Phe Ile Ser Ser Ile Arg Ala Ser Ala
Ser His Phe Met Lys Leu Leu Pro Ser Glu Arg Thr Leu Asn Thr Pro
                    70
Arg Ser Tyr Cys Ser Phe Phe Leu Asn Gly Ile Leu Lys Asn Trp Leu
Lys Arg Glu Glu His Ser Lys Tyr Ile Leu
<210> 1105
<211> 56
<212> PRT
<213> Homo sapiens
<400>. 1105
Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys
```

Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu 20 25 30

```
Ser Lys Ser Pro Lys Tyr His Pro Val Phe Leu Leu Val Ile Ile Met
```

Ala Arg Ser Ser Gln Leu Lys Arg

```
<210> 1106
```

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1106

Val Gly Phe Gln Gly Leu Glu Gly Asn Pro Pro Pro Ala Xaa Leu Asn

Gly Leu Glu Gly Lys Gly Lys Leu Xaa Lys Lys Ala Gln Gly Thr Gly 25 20

Xaa Lys Ile Ile Phe Trp Pro Lys Glu Ser Lys Thr Pro Ser Gly Ser 40 :

Pro Lys Pro Ala Lys Ala Ala Asn Ser Lys Ser Lys Glu Ser Asp Glu 60 55

Pro His His Ser Lys Asn Glu Arg Pro Ala Arg Pro Pro Pro Pro Ile <sub>.</sub> 75

Met Thr Asp Gly Glu Asp Ala Asp Tyr Thr His Phe Thr Asn Gln Gln 90 85

Ser Ser Thr Arg His Phe Ser Lys Ser Glu Ser Ser His Lys Gly Phe . 105 100

His Tyr Lys His 115

<210> 1107

<211> 4

<212> PRT

<213> Homo sapiens

<sup>&</sup>lt;211> 116

<sup>&</sup>lt;212> PRT

```
<400> 1107
Val Leu Arg Asn
<210> 1108
<211> 4
<212> PRT
<213> Homo sapiens
<400> 1108
Val Leu Arg Asn
 1
<210> 1109
<211> 54
<212> PRT
<213> Homo sapiens
<400> 1109
Met Ser Ser Leu Gly Leu Gln Glu Pro Gln Lys Asn Leu Thr Ser Phe
         5 10 . 15
Pro Gln Ile Ser Pro Tyr Pro Leu Ser Ile Phe Thr Pro Ile Ile Ile
           20
Tyr Phe His Thr Ile Gln Leu Ser Lys Asp Ser Trp Arg Leu Thr Cys
                  40
                                           45
Ile Phe Arg Leu Thr Glu
50
<210> 1110
<211> 5
.<212> PRT
<213> Homo sapiens
 <400> 1110
 Thr Thr Met Thr Gly
 <210> 1111
 <211> 40
 <212> PRT
 <213> Homo sapiens
 <400> 1111
 Met Pro Thr Thr Val Gly Ala Gln Ile Phe Ile Phe Leu Leu
               5 10
```

Cys Thr Leu Phe Phe Leu Pro Phe Tyr Gly Cys Leu Lys Ser Arg Glu -25

20

```
Lys Gly Arg Leu Val Asn Asp Glu
35 40
```

<210> 1112

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1112

Met Pro Thr Thr Val Gly Ala Gln Ile Phe Ile Phe Leu Leu
1 5 10 15

Cys Thr Leu Phe Phe Leu Pro Phe Tyr Gly Cys Leu Lys Ser Arg Glu 20 25 30

Lys Gly Arg Leu Val Asn Asp Glu 35 40

<210> 1113

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1113

Val Asp Pro Arg Val Arg Thr Ser Ser Arg Ser Arg Ala Ala Ala Leu 1 5 10

Phe Glu Cys Phe Leu Met Val Phe Leu Leu Lys Cys Gln Val Asn Asn 20 25 30

Phe Asn Pro Ile Gln Gln Tyr Ser Leu Phe Pro Leu Lys Ser Ser Gly 35 40 45

Thr Cys Ser Ile Ser Leu Phe Cys Met Arg Gly Leu Tyr Phe Cys Leu 50 55 60

Gly Val Val Ile Cys Thr His Ala Ile Leu Leu Lys Pro Ser Cys Leu 65 70 75 80

Val Leu Phe Leu Glu Ser Phe Phe Phe Pro Val Leu Met Tyr Ala Gly 85 90 95

Phe Gly Asn Ser Ser 100

<210> 1114

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids <400> 1114 Met Lys Glu Arg Lys Gly Phe Asn Leu Gln Gly Pro Leu Ile Leu Trp Ser Phe Cys Leu Ala Ile Phe Ser Ile Leu Gly Ala Val Arg Met Trp 25 Gly Ile Met Gly Thr Val Leu Leu Thr Gly Gly Leu Lys Gln Thr Val 40 Cys Phe Ile Asn Phe Ile Asp Asn Ser Thr Val Lys Phe Trp Ser Trp 55 Val Phe Leu Leu Ser Lys Val Ile Glu Leu Gly Asp Thr Ala Phe Ile Ile Leu Arg Lys Arg Xaa Leu Ile Phe Ile His Trp Tyr His His Ser Thr Val Leu Val Tyr Thr Ser Phe Gly Tyr Lys Asn Lys Val Pro Ala 100 Gly Gly Trp Phe Val Thr Met Asn Phe Gly Val His Ala Ile Met Tyr 120 Thr Tyr Tyr Thr Leu Lys Ala Ala Asn Val Lys Pro Pro Lys Met Leu Pro Met Leu Ile Thr Ser Leu Gln Ile Leu Gln Met Phe Val Gly Ala 155 150 Ile Val Ser Ile Leu Thr Tyr Ile Trp Arg Gln Asp Gln Gly Cys His 165 170 Thr Thr Met Glu His Leu Phe Trp Ser Phe Ile Leu Tyr Met Thr Tyr 185 Phe Ile Leu Phe Ala His Phe Phe Cys Gln Thr Tyr Ile Arg Pro Lys 200 Val Lys Ala Lys Thr Lys Ser Gln

<210> 1115

<211> 216

<212> PRT

<213> Homo sapiens

<400> 1115

Met Lys Glu Arg Lys Gly Phe Asn Leu Gln Gly Pro Leu Ile Leu Trp
1 5 10 15

Ser Phe Cys Leu Ala Ile Phe Ser Ile Leu Gly Ala Val Arg Met Trp
20 25 30

Gly Ile Met Gly Thr Val Leu Leu Thr Gly Gly Leu Lys Gln Thr Val

Cys Phe Ile Asn Phe Ile Asp Asn Ser Thr Val Lys Phe Trp Ser Trp 50 55 60

Val Phe Leu Leu Ser Lys Val Ile Glu Leu Gly Asp Thr Ala Phe Ile 65 70 75 80

Ile Leu Arg Lys Arg Pro Leu Ile Phe Ile His Trp Tyr His His Ser 85 90 95

Thr Val Leu Val Tyr Thr Ser Phe Gly Tyr Lys Asn Lys Val Pro Ala 100 105 110

Gly Gly Trp Phe Val Thr Met Asn Phe Gly Val His Ala Ile Met Tyr 115 120 125

Thr Tyr Tyr Thr Leu Lys Ala Ala Asn Val Lys Pro Pro Lys Met Leu 130 135 140

Pro Met Leu Ile Thr Ser Leu Gln Ile Leu Gln Met Phe Val Gly Ala 145 150 155 160

Ile Val Ser Ile Leu Thr Tyr Ile Trp Arg Gln Asp Gln Gly Cys His
165 170 175

Thr Thr Met Glu His Leu Phe Trp Ser Phe Ile Leu Tyr Met Thr Tyr 180 185 190

Phe Ile Leu Phe Ala His Phe Phe Cys Gln Thr Tyr Ile Arg Pro Lys 195 200 205

Val Lys Ala Lys Thr Lys Ser Gln 210 215

<210> 1116

<211> 16

<212> PRT

<213> Homo sapiens

<400> 1116

Val Leu Gly Leu Gly Val Val Leu Thr Pro Ile Ile Pro Val Leu Trp
1 5 10 15

<210> 1117

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 1117
Asn Asn Leu Cys Phe Ile Ser Pro Phe Thr Ser Met Tyr Trp Leu Ala
Gln Phe Ile Val Ser Glu Lys Gln Gly Thr His Leu His Xaa Leu Gln
Glu Thr Val Leu Pro Phe Asn Leu Lys Thr Arg Lys Leu Asn Phe Asn
                      40
Arg Asn Leu Leu Ser Met Leu
<210> 1118
<211> 32
<212> PRT
<213> Homo sapiens
<400> 1118
Met His Met Trp Ile Leu Ser Leu His Phe Ile Phe Thr Pro Arg Leu
                   10 15
Val Leu Cys Glu Val Arg Pro Asn Lys Ile Val Glu Asp Thr Ile Ile
<210> 1119
<211> 1
<212> PRT
<213> Homo sapiens
<400> 1119
Ala
<210> 1120
<211> 51
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1120
```

```
Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Cly Leu Phe
1 5 10 15
```

Val Ser Cys Xaa Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu 20 25 30

Asp Ser Ile Thr Phe Xaa Asp Pro Lys Lys Lys Cys Leu Ser Asn Leu 35 40 45

Lys Ser Cys 50

<210> 1121

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1121

Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Leu Gly Leu Phe 1 5 10 15

Val Ser Cys Cys Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu 20 25 30

Asp Ser Ile Thr Phe Arg Asp Pro Lys Lys Lys Cys Leu Cys Asn Leu 35 40 45

Lys Ser Cys 50

<210> 1122

<211> 2

<212> PRT

<213> Homo sapiens

<400> 1122

Tyr Phe

1

<210> 1123

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1123

Leu Thr Thr Pro Tyr Gly Gly Leu Cys Lys Gln Ser Thr Arg Gly Ser

1 10 15

Ile Ile Ser Thr Trp Gln Cys Thr Trp Trp Leu Cys Asp Leu Glu Lys 20 25 30

Val Ser Tyr Ser Cys Leu Cys Val Leu Thr Leu Glu Thr Glu Thr Leu 35 40 45

Phe Val Val Phe Thr Leu Phe Gln Gln Gln Lys Leu Phe Gln Gly Lys
50 60

Ser Tyr Arg Thr Phe Lys His Val Cys Ile His Thr Tyr Pro Ile Pro 65 70 75 80

His Tyr Ile Lys Val Ile Leu Leu 85

<210> 1124

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1124

Met Asn Leu Gly Trp Tyr Gln Met His Pro Leu Lys Met Ile Trp Leu 1 5 10 15

Thr Ile Phe Leu Thr Trp Leu Met Arg Gln Ala Ser Pro Thr Gly His 20 25 30

Asp Leu Glu Val Lys Val Phe Cys Cys Tyr Cys Gly Leu Lys Tyr Leu  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Val Met Gly Glu Glu Cys Arg Val Val Ala Leu Ala Gln Thr Gln Glu 50 55 60

Asn Pro Phe Ser Pro Leu Phe Tyr Phe Cys Tyr Ser Asp His Leu Ser 65 70 75 80

Pro Phe

<210> 1125

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1125

Met Asn Leu Gly Trp Tyr Gln Met His Pro Leu Lys Met Ile Trp Leu 1 5 10 15

Thr Ile Phe Leu Thr Trp Leu Met Arg Gln Ala Ser Pro Thr Gly His 20 25 30

Asp Leu Glu Val Lys Val Phe Cys Cys Tyr Cys Gly Leu Lys Tyr Leu 35 40 45

Val Met Gly Glu Glu Cys Arg Val Val Ala Leu Ala Gln Thr Gln Glu 50 55 60

Asn Pro Phe Ser Pro Leu Phe Tyr Phe Cys Tyr Ser Asp His Leu Ser 65 70 75 80

Pro Phe

```
<210> 1126
 <211> 84
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1126
 Met Gly Thr Phe Ser Leu Met Leu Leu Leu Pro Ser Val Val Cys
 Xaa Ser Phe Lys Val Arg Pro Leu Phe Cys Arg Ala Ala Val Val Cys
 Ser Gly Ser Thr Ser Asp Pro Ile His Leu Gly Pro Ser His Thr Trp
                             40
 Arg Cys His Gln Trp Arg Leu Gln Asn Ser Lys Asp Gly Cys Leu Leu
                      55
   . 50
 Leu Pro Pro Gly Ser Pro Ser Gln Arg Glu Thr Asp Leu Met Leu Ala
                      70
 Gly Met Leu Leu
 <210> 1127
 <211> 25
 <212> PRT
 <213> Homo sapiens
<400> 1127
 Gly Leu Phe Ala Leu Ser Phe Leu Phe Leu Leu Val Val Met Leu Gly
                                     10
 Cys Gln Phe Asp Ile Phe Leu Ala Phe
              20
 <210> 1128
 <211> 84
 <212> PRT
 <213> Homo sapiens
 <400> 1128
 Met Gly Thr Phe Ser Leu Met Leu Leu Leu Pro Ser Val Val Cys
                                     10
 Phe Ser Phe Lys Val Arg Pro Leu Phe Cys Arg Ala Ala Val Val Cys
                                  25
```

Ser Gly Ser Thr Ser Asp Pro Ile His Leu Gly Pro Ser His Thr Trp 35 40 45

Arg Cys His Gln Trp Arg Leu Gln Asn Ser Lys Asp Gly Cys Leu Leu 50 55 60

Leu Pro Pro Gly Ser Pro Ser Gln Arg Glu Thr Asp Leu Met Leu Ala 65 70 75 80

Gly Met Leu Leu

<210> 1129

<211> 219

<212> PRT

<213> Homo sapiens

<400> 1129

Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala 1 5 10 15

Val Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro 20 25 30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val 35 40 45

Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile 50 55 60

Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr 65 70 75 80

Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
85 90 95

Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile 100 105 110

Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu 115 120 125

Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu 130 135 140

Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe 145 150 155 160

Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn 165 170 175

Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp 180 185 190

Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro 195 200 205

Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser

```
<210> 1130
 <211> 219
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids
<220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1130
 Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Alà
 Val Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
 Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Cys Ser Val
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
     50
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
                     70
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
                  85 -
                                     9.0
Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile
                                 105
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
                             120
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
                         135
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
 145
                     150
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
             180
 Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
```

. 200

Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser

```
<210> 1131
```

<211> 217

<212> PRT

<213> Homo sapiens

<400> 1131

Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala Val Leu 1 5 10 15

Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro Arg Tyr 20 25 30

Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val Ile Gly 35 40 45

Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile Lys Asn 50 55 60

Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr Ile Leu 65 70 75 80

Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe Leu Asn 90 95

Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile Tyr Tyr 100 105 110

Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu Phe Lys 115 120 125

Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu Ser Gly 130 140

Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe Lys Asp 145 150 155 160

Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn Pro Pro 165 170 175

Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp Lys Asn 180 185 190

Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro Glu Glu
195 200 205

Lys Pro Lys Val Phe Ile Ile His Ser 210 215

<210> 1132

<211> 253

<212> PRT

<213> Homo sapiens

<220>

```
<221> SITE
 <222> (215)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (252)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (253)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1132
 Met Gln Ala Cys Val Leu Leu Gly Leu Val Leu Ser Ala Gln Leu
 Gln Ser Pro Glu Asn Met Arg Met Gly Gly Gly Arg Val Leu Leu Arg
 Ala His Pro Val Pro Ala Gly Gly Gln Cys Gln Ser Ser Ala Lys
 Gly Pro Trp Val Gly Thr Gly Pro Glu Arg Glu Glu Arg Asp Ser Pro
                          55
. Glu Gly Arg Trp Ala Ser Tyr Trp Ala Gln Ser Trp Glu Gly Val Ala
 Ala Ser Thr Gly Trp Ala Trp Thr Pro Leu Ala Pro Thr Pro Ser Gly
 Cys Gly Cys Ser Leu Ser Leu Glu Ser Arg Thr Gly Pro Gly Cys Leu
                                 105
 Gly Gly Cys Gln Val Pro Pro Glu Leu Pro Arg Ala Pro Thr Cys Lys
                             120
 Cys Gln Pro Gln Gly Ser Ala Gln Met Arg Pro Ser Gln Leu Gln Pro
 Ala Met Pro Trp Asp Ala His Arg Glu Gly Gly Phe Gly Leu Leu
                                         155
 Ser Pro Trp Glu Arg Leu Gly Ala Val Thr Ala Arg Leu Ala Gln Ala
His Cys Arg Val Gly Trp Leu Pro Gln Pro Gly Leu Gly Gly Thr Pro
 Gly Ser Gly Pro Pro Cys Leu Glu Ser Gln Trp Gly Asp Gly Glu Glu
 Thr Trp Pro Pro Met Ala Xaa Gly Gln Leu Arg Thr Arg Thr Cys Trp
                         -215
 Ser Trp Lys Cys Cys Gly Val Glu Gly Trp Gly Gly Gln Leu Leu Thr
```

230

Pro Ala Ser Cys Leu Leu Ser Thr Phe Pro Xaa Xaa 245 250

<210> 1133

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1133

Asn Ser Glu Lys Gly Gln Lys Lys Gln Arg Gly Pro Arg Trp Ile Cys
1 5 10 15

Gln Leu Phe Cys Arg Cys Phe Leu Pro Leu Leu Trp Val Val Cys Ser 20 25 30

Pro Leu Gln Thr Ser Ala Arg Arg Glu Gly Leu Asn Leu Pro Ala Pro 35 40 45

Gln Asp Leu Leu Pro Ser Gly Pro Ser Pro Ala Leu Arg Ser Leu Pro 50 55 60

Asp Arg Arg Val Asp Arg Ala Thr Trp Ala Ala Arg Glu Thr His Gly 65 70 75 80

Gly Pro Pro Cys Gly Gln Pro Cys Gln Leu Pro Pro Ser Pro Glu Leu 85 90 95

His Leu His Leu Glu Glu 100

<210> 1134

<211> 137

<212> PRT

<213> Homo sapiens

<400> 1134

Met Gln Ala Cys Val Leu Leu Leu Gly Leu Val Leu Ser Ala Gln Leu
1 5 10 15

Gln Ser Pro Glu Asn Met Arg Met Gly Gly Gly Arg Val Leu Leu Arg 20 25 30

Ala His Pro Val Pro Ala Gly Gly Gly Gln Cys Gln Ser Ser Ala Lys
35 40 45

Gly Pro Trp Val Gly Thr Gly Pro Glu Arg Glu Glu Arg Asp Ser Pro 50 55 60

Glu Gly Arg Trp Ala Ser Tyr Trp Ala Gln Ser Trp Glu Gly Val Ala
65 70 75 80

Ala Ser Thr Gly Trp Ala Trp Thr Pro Leu Ala Pro Thr Pro Ser Gly
85 90 95

Cys Gly Cys Ser Pro Lys Pro Gly Glu Gln Asp Arg Pro Gly Val Ser 100 105 110

```
Gly Arg Leu Pro Gly Ala Ser Gln Ser Ser Gln Gly Pro Pro Pro Ala
                            120
Ser Ala Ser Leu Arg Ala Val Pro Lys
                        135
<210> 1135
<211> 93
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids -
<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1135
Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr
Leu Xaa Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys
Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Xaa Tyr Ile Phe Ala
 65
Leu Phe Asn Ser Leu Gln Ala Gln Arg Gly Ile Thr Val
<210> 1136
<211> 93
<212> PRT
<213> Homo sapiens
<400> 1136
Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
                                     10
```

Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys 35 40 45

Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr

Val Leu Thr Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly 50 55 60

Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala 65 70 75 80

Leu Phe Asn Ser Leu Gln Ala Gln Arg Gly Ile Thr Val

<210> 1137

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1137

Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr 20 25. 30

Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys 35 40 45

Val Leu Thr Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly 50 55 60

Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala 65 70 75 80

Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr Ala Arg 100 105 110

Leu Asp Gln Ala His Ser Ala Ser Gln Glu
115 120

<210> 1138

<211> 241

<212> PRT

<213> Homo sapiens

<400> 1138

Ala Pro Gly Gln Thr Pro Ser Leu Cys Ser Trp Leu Leu Pro Leu Pro 1 5 10

Ser Thr Trp Ala Thr Thr Gly His Val Cys Phe Ser Asp Ile Leu Gln
20 25 30

Thr Pro Asp Gly Gly Gln Leu Leu Leu Asp Trp Ala Lys Gln Pro Asp 35 40 45

Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu Leu 50 55 60

```
Pro Gly Ile Thr Gly Ser Ser Gln Glu Thr Tyr Val Leu His Leu Val
                    70
Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn Arg
Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala Ser
                                105
Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg Tyr
                            120
Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile Leu
                       135
Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val Ala
                                        155
                 150
Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg Ser
                                170
               165
Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr Ala
                                185
Gly Leu Cys Gln Leu Val Glu Arg Leu Ser Tyr Gly Lys Thr Cys Arg
                            200
Pro Val Gln Ser Ala Ser Leu Met Ser Ala Thr His Leu Trp Pro Leu
                        215
Asp Ile Lys Thr Val Leu Pro Thr Thr Lys Gln Gln Ala Leu Glu Pro
                                        235
225
Arg
<210> 1139
<211> 242
<212> PRT
<213> Homo sapiens
<400> 1139
```

```
Val Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn
Arg Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala
                                105
Ser Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg
                            120
Tyr Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile
                        135
Leu Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val
                                        155
                   150·
Ala Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg
                                    170
               165
Ser Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr
                                185
Ala Gly Leu Cys Gln Leu Val Glu Arg Leu Ser Tyr Gly Lys Thr Cys
                            200
Arg Pro Val Gln Ser Ala Ser Leu Met Ser Ala Thr His Leu Trp Pro
                        215
                                            2.20
```

Leu Asp Ile Lys Thr Val Leu Pro Thr Thr Lys Gln Gln Ala Leu Glu 225 230 235 240

Pro Arg

<210> 1140
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1140
Met Gly Trp Pro Arg Pro Gly Arg Ala Leu Val Ala Val Lys Ala Leu
1 5 10 15

Leu Val Leu Ser Leu Leu Gln Val Pro Ala Gln Ala Val Val Arg Ala
20 25 30

Val Leu Glu Asp Asn Ser Ser Ser Val Asp Phe Ala Asp Leu Pro Ala
35 40 45

Leu Phe Gly Val Pro Leu Ala Pro Glu Gly Ile Arg Gly Tyr Leu Met 50 55 60

Glu Val Lys Pro Ala Asn Ala Cys His Pro Ile Glu Ala Pro Arg Leu 65 70 75 80 Gly Asn Arg Ser Leu Gly Ala Ile Val Leu Ile Arg Arg Tyr Asp Cys
85 90 95

Thr Phe Asp Leu Lys Val Leu Asn Ala Gln Arg Ala Gly Phe Glu Ala 100 . 105 110

Ala Ile Val His Asn Val His Ser Asp Asp Leu Val Ser Met Thr His 115 120 125

Val Tyr Glu Asp Leu Arg Gly Gln Ile Ala Ile Pro Ser Val Xaa Val 130 135 140

Ser Glu Ala Ala Arg Arg Thr Cys Gly Ser Ser Trp Ala Ala Thr Ser 145 150 155 160

Arg Pro Thr Arg Cys Pro Ala Asp Asp Pro Pro Cys His Asp Leu Ala 165 170 175

Val Thr Pro Cys 180

<210> 1141

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1141

Thr Gln Pro Cys Gln Arg Pro Gly Ile Val Thr Pro Val Leu Thr Val

Ser Trp Val Leu Xaa Cys Thr Leu Ala Leu Val Val Ser Ala Phe Phe 20 25 30

Val Leu Asn His Leu Trp Leu Trp Ala Gln Ala Cys Xaa Ser His Arg 35 40 45

Arg Pro Val Lys Thr Ser Thr Cys Gln Lys Ala Gln Val Arg Thr Phe 50 55 60

Thr Trp His Asn Asp Leu Cys Ala Ile Cys Leu Asp Glu Tyr Glu Glu 65 70 75 80

Gly Asp Gln Leu Lys Ile Leu Pro Cys Ser His Thr Tyr His Cys Lys 85 90 95

Cys Ile Asp Pro Trp Phe Ser Gln Ala Pro Arg Arg Ser Cys Pro Val

```
Cys Lys Gln Ser Val Ala Ala Thr Glu Asp Ser Phe Asp Ser Thr Thr
115 120 125
```

Tyr Ser Phe Arg Asp Glu Asp Pro Ser Leu Pro Gly His Arg Pro Pro 130 135 140

Ile Trp Ala Ile Gln Val Gln Tyr Ala Pro Gly Gly Trp Ser Cys Trp 145 150 155 160

Ala Ala Pro Val Pro Thr Ala Thr Ala Ala Pro Arg Pro Trp Arg Gln 165 170 175

Ser Ile Pro Leu Ser Pro Gln Pro Leu Leu Arg Pro Leu Val Ser Lys
180 185 190

Asp Leu Gly Gln Gly Gly Gly Cys Asn Glu Glu Cys Phe Trp Ser Glu 195 200 205

Lys Asn Lys Val Gly Leu Lys Ala Glu Lys Lys Lys Lys Lys Lys Thr 210 215 220

Arg 225

<210> 1142

<211> 359

<212> PRT

<213> Homo sapiens

<400> 1142

Met Gly Trp Pro Arg Pro Gly Arg Ala Leu Val Ala Val Lys Ala Leu

1 5 10 15

Val Leu Glu Asp Asn Ser Ser Ser Val Asp Phe Ala Asp Leu Pro Ala 35 40 45

Leu Phe Gly Val Pro Leu Ala Pro Glu Gly Ile Arg Gly Tyr Leu Met 50 55 60

Glu Val Lys Pro Ala Asn Ala Cys His Pro Ile Glu Ala Pro Arg Leu 65 70 75 80

Gly Asn Arg Ser Leu Gly Ala Ile Val Leu Ile Arg Arg Tyr Asp Cys 85 90 95

Thr Phe Asp Leu Lys Val Leu Asn Ala Gln Arg Ala Gly Phe Glu Ala
100 105 110

Ala Ile Val His Asn Val His Ser Asp Asp Leu Val Ser Met Thr His
115 120 125

Val Tyr Glu Asp Leu Arg Gly Gln Ile Ala Ile Pro Ser Val Phe Val 130 135 140

Ser Glu Ala Ala Ser Gln Asp Leu Arg Val Ile Leu Gly Cys Asn Lys 150 Ser Ala His Ala Leu Leu Leu Pro Asp Asp Pro Pro Cys His Asp Leu 165 Gly Cys His Pro Val Leu Thr Val Ser Trp Val Leu Gly Cys Thr Leu 185 Ala Leu Val Val Ser Ala Phe Phe Val Leu Asn His Leu Trp Leu Trp 200 Ala Gln Ala Cys Cys Ser His Arg Arg Pro Val Lys Thr Ser Thr Cys 215 Gln Lys Ala Gln Val Arg Thr Phe Thr Trp His Asn Asp Leu Cys Ala 230 235 Ile Cys Leu Asp Glu Tyr Glu Glu Gly Asp Gln Leu Lys Ile Leu Pro 250 Cys Ser His Thr Tyr His Cys Lys Cys Ile Asp Pro Trp Phe Ser Gln 265 Ala Pro Arg Arg Ser Cys Pro Val Cys Lys Gln Ser Val Ala Ala Thr Glu Asp Ser Phe Asp Ser Thr Thr Tyr Ser Phe Arg Asp Glu Asp Pro Ser Leu Pro Gly His Arg Pro Pro Ile Trp Ala Ile Gln Val Gln Leu . 315 310 Arg Ser Arg Arg Leu Glu Leu Leu Gly Arg Ala Ser Pro His Cys His 325

Pro Pro Glu Ala Pro Gly Gln 355

340

<210> 1143 <211> 133 <212> PRT

<213> Homo sapiens

<400> 1143

Met Trp His Thr Lys Pro Leu Gly Ser Gly Ser Cys Val Pro Leu Leu 1 5 10 15

Cys Ser Thr Thr Ser Leu Glu Ala Glu Tyr Thr Thr Val Ser Ser Ala

345

Pro Leu Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Pro Trp Pro
20 25 30

Pro Pro Leu Pro Pro Pro Pro Pro Ser Ser Leu His Pro Phe Ala Pro
35 40 45

Ala Phe Pro Ala Thr Gly Ser Leu Ser Ser Asn Asn Ser Gln Leu Leu

Ala Pro Leu Arg Leu Gln Asn Ala Leu His Leu Phe Lys Cys Phe Pro 65 70 75 80

Val Leu Phe Pro Leu His Lys Ile Ile Ser Phe His Pro Glu Tyr Pro 85 90 95

Trp Gln Ala Pro Ile Phe Gln Tyr Phe Tyr Leu Ser Ile Pro Ser Ser 100 105 110

Ser Leu His Pro Glu His Leu Gly His Ser Phe Val Ser Thr Leu His 115 120 125

Ser Pro Thr Arg Gln 130

<210> 1144

<211> 86

<212> PRT

<213> Homo sapiens

·· <220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144

Pro Cys Cys Phe His Lys Pro His Ala Ser His Ile Met Asn Phe Leu
1 5 10 15

Ile Arg Ile Gln Cys Ile Tyr Leu Pro Lys Ile Val Cys Ala Tyr Ser 20 25 30

Lys Tyr Glu Gln Phe Leu Asn Asn Gly Ser Ile Ile Phe Val Gln Asn 35 40 45

Ala Lys Asn Trp Gly Gln Ala Trp Trp His Thr Pro Val Ile Pro Ala 50 60

Leu Trp Glu Ala Lys Val Gly Xaa Ser Pro Glu Val Arg Ser Leu Arg 65 70 75 80

Pro Ala Trp Pro Ala Trp 85

<210> 1145

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1145

Met Trp His Thr Lys Pro Leu Gly Ser Gly Ser Cys Val Pro Leu Leu 1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Phe Pro Leu Leu Pro Trp Pro

20

Pro Pro Leu Pro Pro Pro Pro Pro Ser Ser Leu His Pro Phe Ala Pro 35 40 45

25

Ala Phe Pro Ala Thr Gly Ser Leu Ser Ser Asn Asn Ser Gln Leu Leu 50 55 60

Ala Pro Leu Arg Leu Gln Asn Ala Leu His Leu Phe Lys Cys Phe Pro 65 70 75 80

Val Leu Phe Pro Leu His Lys Ile Ile Ser Phe His Pro Glu Tyr Pro

Trp Gln Ala Pro Ile Phe Gln Tyr Phe Tyr Leu Ser Ile Pro Ser Ser 100 105 110

Ser Leu His Pro Glu His Leu Gly His Ser Phe Val Ser Thr Leu His 115 120 125

Ser Pro Thr Arg Gln 130

<210> 1146

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1146

Met Ala Ala Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu 1 5 10 15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala 35 40 45

Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly 50 55 60

Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu 65 70 75 80

Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg 85 90 95

Val Thr Gly

<211> 455

<212> PRT

<213> Homo sapiens

<400> 1147

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu 1 5 10 15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp 20 25 30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala 40 45

Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Pro 50 60

Cys Ile Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Arg 65 70 75 80

Asn Phe Leu Leu Arg Ser Arg Ala Leu Ala Thr Gln Arg Arg Ser Ala 85 90 95

Arg Val Thr Gly Leu Thr Arg Leu Pro Thr Cys Ala Arg Leu Gly Leu 100 105 110

Gly Thr Arg Arg Arg Gln Arg Arg Gly Glu Arg Trp Arg Arg Arg 115 120 125

Ala Gly Ser Ala Gly Ser Arg Arg Cys Ser Gly Arg Lys Arg Arg Gly 130 135 140

Val Cys Arg Arg Gly Arg Cys Arg Gln Arg Trp Arg Ser Arg Ala Pro 145 150 155 160

Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Pro Ala Gly Pro Glu 165 170 175

Phe Leu Trp Leu Trp Ile Gly Leu Ala Lys Ala Gly Leu Arg Thr Ala 180 185 190

Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His Cys Leu Arg 195 200 205

Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe Leu Glu Ser 210 215 220

Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu His Leu Trp 225 230 235 240

Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp Leu Leu Ala 245 250 255

Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr Leu Ser Ser 260 265 270

Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr Ser Gly Thr 275 280 285

Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys Ile Leu Gln

290

Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu Asp Val Ile 310 315

Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu Leu Gly Ile

Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys Ser Lys Phe 345

Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg Val Thr Val

Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn Gln Pro Pro 375

Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val Gly Ser Gly 390

Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Phe Gly Pro Leu 405 410

Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val Pro Pro Ser 420 425

Thr Thr Gln Asp Ser Gly Ala Leu Trp Gly Val Leu Pro Gly Phe Thr 440

Ser Ile Ser Ser Pro Ser Pro 450

<210> 1148

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<222> (4)

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<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1148
Met Met Leu Ile Pro Met Ala Ser Val Met Ala Val Thr Glu Pro Lys
Trp Val Ser Val Trp Ser Arg Phe Leu Trp Val Thr Leu Leu Ser Met
                                  25
Val Leu Gly Ser Leu Leu Ala Leu Leu Pro Leu Gly Ala Val Glu
                             40
Glu Gln Cys Leu Ala Val Leu Lys Gly Leu Tyr Leu Leu Arg Ser Lys
Pro Asp Arg Ala Gln His Ala Ala Pro Ser Ala Pro Xaa Arg Pro Arg
Ser Xaa Xaa Ser Pro Xaa Gly Ala Arg Arg Xaa Leu Val Ala Lys Thr
Lys Ala Phe Ser Ser Gly Val Lys Phe Gly Lys Ala Gln Glu Leu Ala
            100
Leu Glu Pro Arg Pro Trp Lys Ile Lys Xaa Ala Xaa Gly Gln Ser Arg
                             120
Gly Lys Lys Ala Gln Lys Ser Ser Phe Asn Ala Pro Pro Phe Lys Glu
                        135
                                            140
Trp Asp Pro Gly Asn Phe Pro Gly Asp
                    150
<210> 1149
<211> 361
<212> PRT
<213> Homo sapiens
·<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (19) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1149 Ala Xaa Pro Xaa Gly Lys Leu Glu Ala Arg Ala Ala Leu Asn Gln Ala Leu Glu Xaa Lys Arg Gln Gly Lys Arg Glu Lys Ala Gln Lys Leu Phe Met His Ala Leu Lys Met Asp Pro Asp Phe Val Asp Ala Leu Thr Glu 40 Phe Gly Ile Phe Ser Glu Glu Asp Lys Asp Ile Ile Gln Ala Asp Tyr Leu Tyr Thr Arg Ala Leu Thr Ile Ser Pro Tyr His Glu Lys Ala Leu 70 Val Asn Arg Asp Arg Thr Leu Pro Leu Val Glu Glu Ile Asp Gln Arg 85 Tyr Phe Ser Ile Ile Asp Ser Lys Val Lys Lys Val Met Ser Ile Pro 105 Lys Gly Asn Ser Ala Leu Arg Arg Val Met Glu Glu Thr Tyr Tyr His \_ 115 120 His Ile Tyr His Thr Val Ala Ile Glu Gly Asn Thr Leu Thr Leu Ser 13.5 140 Glu Ile Arg His Ile Leu Glu Thr Arg Tyr Ala Val Pro Gly Lys Ser 145 155 Leu Glu Glu Gln Asn Glu Val Ile Gly Met His Ala Ala Met Lys Tyr 165 170 Ile Asn Thr Thr Leu Val Ser Arg Ile Gly Ser Val Thr Ile Ser Asp 185 180 Val Leu Glu Ile His Arg Arg Val Leu Gly Tyr Val Asp Pro Val Glu 200 Ala Gly Arg Phe Arg Thr Thr Gln Val Leu Val Gly His His Ile Pro 215 210 Pro His Pro Gln Asp Val Glu Lys Gln Met Gln Glu Phe Val Gln Trp 235 230 Leu Asn Ser Glu Glu Ala Met Asn Leu His Pro Val Glu Phe Ala Ala Leu Ala His Tyr Lys Leu Val Tyr Ile His Pro Phe Ile Asp Gly Asn 265

Tyr Pro Pro Ile Thr Ile Arg Lys Glu Gln Arg Ser Asp Tyr Tyr His 290 295 300

Val Leu Glu Ala Ala Asn Glu Gly Asp Val Arg Pro Phe Ile Arg Phe 305 310 315 320

Ile Ala Lys Cys Thr Glu Thr Thr Leu Asp Thr Leu Leu Phe Ala Thr 325 330 335

Thr Glu Tyr Ser Val Ala Leu Pro Glu Ala Gln Pro Asn His Ser Gly 340 345 350

Phe Lys Glu Thr Leu Pro Val Lys Pro 355 360

<210> 1150

<211> 458

<212> PRT

<213> Homo sapiens

<400> 1150

Met Met Leu Ile Pro Met Ala Ser Val Met Ala Val Thr Glu Pro Lys
1 5 10 15

Trp Val Ser Val Trp Ser Arg Phe Leu Trp Val Thr Leu Leu Ser Met 20 25 30

Val Leu Gly Ser Leu Leu Ala Leu Leu Leu Pro Leu Gly Ala Val Glu 35 40 45

Glu Gln Cys Leu Ala Val Leu Lys Gly Leu Tyr Leu Leu Arg Ser Lys 50 55 60

Pro Asp Arg Ala Gln His Ala Ala Thr Lys Cys Thr Ser Pro Ser Thr 65 70 75 80

Glu Leu Ser Ile Thr Ser Arg Gly Ala Thr Leu Leu Val Ala Lys Thr 85 90 95

Lys Ala Ser Pro Ala Gly Lys Leu Glu Ala Arg Ala Ala Leu Asn Gln
100 105 110

Ala Leu Glu Met Lys Arg Gln Gly Lys Arg Glu Lys Ala Gln Lys Leu 115 120 125

Phe Met His Ala Leu Lys Met Asp Pro Asp Phe Val Asp Ala Leu Thr 130 135 140

Glu Phe Gly Ile Phe Ser Glu Glu Asp Lys Asp Ile Ile Gln Ala Asp 145 150 155 160

Tyr Leu Tyr Thr Arg Ala Leu Thr Ile Ser Pro Tyr His Glu Lys Ala 165 170 175

Leu Val Asn Arg Asp Arg Thr Leu Pro Leu Val Glu Glu Ile Asp Gln 180 185 190 Arg Tyr Phe Ser Ile Ile Asp Ser Lys Val Lys Lys Val Met Ser Ile 195 200 205

Pro Lys Gly Asn Ser Ala Leu Arg Arg Val Met Glu Glu Thr Tyr Tyr 210 215 220

His His Ile Tyr His Thr Val Ala Ile Glu Gly Asn Thr Leu Thr Leu 225 230 235 240

Ser Glu Ile Arg His Ile Leu Glu Thr Arg Tyr Ala Val Pro Gly Lys 245 250 255

Ser Leu Glu Gln Gln Asn Glu Val Ile Gly Met His Ala Ala Met Lys 260 265 270

Tyr Ile Asn Thr Thr Leu Val Ser Arg Ile Gly Ser Val Thr Ile Ser 275 280 285

Asp Val Leu Glu Ile His Arg Arg Val Leu Gly Tyr Val Asp Pro Val 290 295 300

Glu Ala Gly Arg Phe Arg Thr Thr Gln Val Leu Val Gly His His Ile 305 310 315 320

Pro Pro His Pro Gln Asp Val Glu Lys Gln Met Gln Glu Phe Val Gln 325 330 335

Trp Leu Asn Ser Glu Glu Ala Met Asn Leu His Pro Val Glu Phe Ala 340 345 350

Ala Leu Ala His Tyr Lys Leu Val Tyr Ile His Pro Phe Ile Asp Gly 355 360 365

Asn Gly Arg Thr Ser Arg Leu Leu Met Asn Leu Ile Leu Met Gln Ala 370 375 380

Gly Tyr Pro Pro Ile Thr Ile Arg Lys Glu Gln Arg Ser Asp Tyr Tyr 385 390 395 400

His Val Leu Glu Ala Ala Asn Glu Gly Asp Val Arg Pro Phe Ile Arg 405 410 415

Thr Thr Glu Tyr Ser Val Ala Leu Pro Glu Ala Gln Pro Asn His Ser 435 440 445

Gly Phe Lys Glu Thr Leu Pro Val Lys Pro 450 455

<210> 1151

<211> 125

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
Ala Gln Arg Asn Pro Gly Ala Val Pro Ala Val Trp Arg Gln Ala Gly
Val Thr Phe Thr Ser Ala Lys Gly Arg Ser Ser Pro Tyr Trp Ser Leu
            20
His Pro Gln Ile Ile Leu Leu Arg Lys Leu Ser Ser Kaa Gln Lys
                             40
Pro Arg Ser Ser Ser Ala Gln Cys Gly Arg Asn Ala Ala Gly Leu
Pro His Cys Leu Arg Ala Ser Trp Ser Arg Leu Leu Lys Ile Glu Trp
Gln Val Gly Leu Ala Trp Ala Gly Ala Asp Val Leu Cys Gly His Pro
Val Pro Lys Arg Pro Pro Thr Leu Gly Pro Gln Thr Ser Gly Ala Asp
                               105
Trp His Leu Arg Gly His Ser Pro Thr His Leu Leu Gln
                            120
<210> 1152
<211> 17
<212> PRT
<213> Homo sapiens
<400> 1152
Met Leu Ser Gly Ser Leu Gly Ser Ala Val Cys Met Ser Ser Gln Pro
Arg
<210> 1153
<211> 17
<212> PRT
<213> Homo sapiens
<400> 1153
Met Leu Ser Gly Ser Leu Gly Ser Ala Val Cys Met Ser Ser Gln Pro
    5
Arg
```

<210> 1154

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<211> 254
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (240)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1154
Glu Thr Arg Leu His His Val Ser Thr Leu Ala Ala Phe Thr Val Arg
Gln Val Gln Gln His Gln Gly Asn Leu Asp Ala Ser Gly Pro Ala Arg
Asp Leu Val Asp Ala Phe Leu Leu Lys Met Ala Gln Glu Gln Asn
                             40
Pro Gly Thr Glu Phe Thr Asn Lys Asn Met Leu Met Thr Val Ile Tyr
                         55
Leu Leu Phe Ala Gly Thr Met Thr Val Ser Thr Thr Val Gly Tyr Thr
                                         75
Leu Leu Leu Met Lys Tyr Pro His Val Gln Lys Trp Val Arg Glu
Glu Leu Asn Arg Glu Leu Gly Ala Gly Gln Ala Pro Ser Leu Gly Asp
                                105
Arg Thr Arg Ser Leu Thr Pro Thr Arg Phe Cys Met Arg Arg Ser Gly
                            120 .
        115
Cys Trp Arg Trp Cys Pro Trp Glu Tyr Pro Ala Pro Ser Cys Gly Pro
                        135
Pro Ala Ser Glu Gly Thr Pro Cys Pro Arg Ala Arg Arg Ser Ser Pro
                                        155
Ser Leu Ala Pro Ser Cys Met Thr Pro Thr Ser Ser Ser Thr Gln Lys
                                    170
Ser Ser Thr Gln Thr Val Ser Trp Met Gln Met Asp Gly Ser Gly Ser
                                185
Met Arg Arg Ser Cys Leu Leu Leu Lys Glu Ala Cys Leu Pro Trp Lys
```

Gly Pro Gly Lys Ser Gly Ala Leu Pro Xaa Leu His His Pro Thr

Ser Leu Leu Xaa Gly Glu Pro Val Pro Ala Gly His Pro Glu Pro Xaa 225 230 235 240

Ala His Arg Gln Trp Pro Phe Gln His Ser Pro Ser Leu Pro 245 250

<210> 1155

<211> 302

<212> PRT

<213> Homo sapiens

<400> 1155

Met Glu Ala Thr Gly Thr Trp Ala Leu Leu Leu Ala Leu Ala Leu Leu
1 5 10 15

Leu Leu Thr Leu Ala Leu Ser Gly Thr Arg Ala Arg Gly His Leu 20 25 30

Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu 35 40 45

Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr
50 55 60

Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val 65 70 75 80

Leu Val Gly Gl<br/>n Glu Ala Val Arg Glu Ala Leu Gly Gly Gl<br/>n Ala Glu 85 90 95

Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp 100 105 110

Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg 115 120 125

Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu 130 135 140

Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe 145 150 155 160

Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln 165 170 175

Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser 180 185 190

Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr

Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Val Ser Gly Trp Asp Pro 210 215 220

Ser Pro Thr Thr Phe Pro Glu Gly Ser Cys Gln Gly Pro Met Arg Thr 225 230 235 240

- Ser Cys Pro Ser Pro His Arg Pro Thr Arg Cys Ser Pro Gly Ser Cys 245 250 255
- Gly Pro Cys Gln Ala Pro Thr Ser Ser Ser Ser Thr Thr Ser Ala Pro 260 265 270
- Trp Leu Pro Ser Gln Ser Gly Arg Cys Ser Ser Thr Arg Gly Thr Trp
  275 280 285
- Met Leu Arg Ala Pro His Val Thr Leu Ser Met Pro Ser Cys 290 295 300
- <210> 1156
- <211> 302
- <212> PRT
- <213> Homo sapiens
- <400> 1156
- Met Glu Ala Thr Gly Thr Trp Ala Leu Leu Leu Ala Leu Ala Leu Leu
  1 1 15 15
- Leu Leu Thr Leu Ala Leu Ser Gly Thr Arg Ala Arg Gly His Leu 20 25 30
- Pro Pro Gly Pro Thr Pro Leu Pro Leu Gly Asn Leu Leu Gln Leu 35 40 45
- Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr 50 55 60
- Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val 65 70 75 80
- Leu Val Gly Gl<br/>n Glu Ala Val Arg Glu Ala Leu Gly Gly Gl<br/>n Ala Glu 85 90 95
- Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp 100 105 110
- Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg 115 120 125
- Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu 130 135 140
- Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe 145 150 155 160
- Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Ala Gln 165 170 175
- Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser 180 185 190
- Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr 195 200 205

Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Val Ser Gly Trp Asp Pro 210 215 220

Ser Pro Thr Thr Phe Pro Glu Gly Ser Cys Gln Gly Pro Met Arg Thr 225 230 235 240

Ser Cys Pro Ser Pro His Arg Pro Thr Arg Cys Ser Pro Gly Ser Cys 245 250 255

Gly Pro Cys Gln Ala Pro Thr Ser Ser Ser Ser Thr Thr Ser Ala Pro 260 265 270

Trp Leu Pro Ser Gln Ser Gly Arg Cys Ser Ser Thr Arg Gly Thr Trp 275 280 285

Met Leu Arg Ala Pro His Val Thr Leu Ser Met Pro Ser Cys 290 295 300

<210> 1157

<211> 240

<212> PRT

<213> Homo sapiens

<400> 1157

Met Thr Ala Pro Val Pro Ala Pro Arg Ile Leu Leu Pro Leu Leu Leu 1 5 10 15

Leu Leu Leu Thr Pro Pro Pro Gly Ala Arg Gly Glu Val Cys Met 20 25 30

Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe Cys 35 40 45

Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys Lys 50 60

Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val Pro 65 70 75 80

Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe Arg 85 90 95

Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala Val 100 105 110

Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys Phe 115 120 125

Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg Pro 130 135 140

Val Val Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr Pro 145 150 155 160

Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln Gly
165 170 175

Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr Pro

Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala 195 200 205

Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala Ser 210 215 220

Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala Leu 225 230 235 240

<210> 1158

<211> 240

<212> PRT

<213> Homo sapiens

<400> 1158

Met Thr Ala Pro Val Pro Ala Pro Arg Ile Leu Leu Pro Leu Leu 1 5 10 15

Leu Leu Leu Thr Pro Pro Pro Gly Ala Arg Gly Glu Val Cys Met 20 25 30

Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe Cys 35 40 45

Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys Lys 50 60

Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val Pro 65 70 75 80

Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe Arg 85 90 95

Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala Val 100 105 110

Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys Phe 115 120 125

Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg Pro 130 135 140

Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr Pro 145 150 155 160

Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln Gly
165 170 175

Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr Pro 180 185 190

Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala 195 200 205 Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala Ser 210 215 220

Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala Leu 225 230 235 240

<210> 1159

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1159

Met Lys Gly Leu Arg Ser Leu Ala Ala Thr Thr Leu Ala Leu Phe Leu 1 5 10 15

Val Phe Val Phe Leu Gly Asn Ser Ser Cys Ala Pro Gln Arg Leu Leu 20 25 30

Glu Arg Arg Asn Trp Thr Pro Gln Ala Met Leu Tyr Leu Lys Gly Ala 35 40 45

Gln Gly Arg Arg Phe Ile Ser Asp Gln Ser Arg Arg Lys Asp Leu Ser 50 55 60

Asp Arg Pro Leu Pro Glu Arg Arg Ser Pro Asn Pro Gln Leu Leu Thr 65 70 75 80

Ile Pro Glu Ala Ala Thr Ile Leu Leu Ala Ser Leu Gln Lys Ser Pro 85 90 95

Glu Asp Glu Glu Lys Asn Phe Asp Gln Thr Arg Phe Leu Glu Asp Ser 100 105 110

Leu Leu Asn Trp 115

<210> 1160

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1160

Met Lys Gly Leu Arg Ser Leu Ala Ala Thr Thr Leu Ala Leu Phe Leu 1 5 10 15

Val Phe Val Phe Leu Gly Asn Ser Ser Cys Ala Pro Gln Arg Leu Leu 20 25 30

Glu Arg Arg Asn Trp Thr Pro Gln Ala Met Leu Tyr Leu Lys Gly Ala 35 40 45

Gln Gly Arg Arg Phe Ile Ser Asp Gln Ser Arg Arg Lys Asp Leu Ser

Asp Arg Pro Leu Pro Glu Arg Arg Ser Pro Asn Pro Gln Leu Leu Thr 65 70 75 80

Ile Pro Glu Ala Ala Thr Ile Leu Leu Ala Ser Leu Gln Lys Ser Pro 85 90 95

Glu Asp Glu Glu Lys Asn Phe Asp Gln Thr Arg Phe Leu Glu Asp Ser 100 105 110

Leu Leu Asn Trp 115

<210> 1161

<211> 426

<212> PRT

<213> Homo sapiens

<400> 1161

Val Val Pro Phe Ser Gly Met Leu Pro Pro Gly Ala Glu Lys Ala Val 1 5 10 15

Ala Ser Phe Val Thr Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala 20 25 30 .

Pro Asp Val Thr Thr Leu Pro Arg Asn Val Met Phe Val Phe Gln 35 40 45

Gly Glu Thr Phe Asp Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met 50 60

Glu Lys Gly Lys Phe Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val 65 70 75 80

Glu Leu Gly Gln Val Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His
85 90 95

Thr Asp Pro Val Ser Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu
100 105 110

Asp Leu Leu Ala Thr Leu Glu Lys Ser Gly Ala Gly Val Pro Ala Val 115 120 125

Ile Leu Arg Arg Pro Asn Gln Ser Gln Pro Leu Pro Pro Ser Ser Leu 130 135 140

Gln Arg Phe Leu Arg Ala Arg Asn Ile Ser Gly Val Val Leu Ala Asp 145 150 155 160

His Ser Gly Ala Phe His Asn Lys Tyr Tyr Gln Ser Ile Tyr Asp Thr 165 170 175

Ala Glu Asn Ile Asn Val Ser Tyr Pro Glu Trp Leu Ser Pro Glu Glu
180 185 190

Asp Leu Asn Phe Val Thr Asp Thr Ala Lys Ala Leu Ala Asp Val Ala 195 200 205

- Thr Val Leu Gly Arg Ala Leu Tyr Glu Leu Ala Gly Gly Thr Asn Phe 210 215 220
- Ser Asp Thr Val Gln Ala Asp Pro Gln Thr Val Thr Arg Leu Leu Tyr 225 230 235 240
- Gly Phe Leu Ile Lys Ala Asn Asn Ser Trp Phe Gln Ser Ile Leu Arg \$245\$ \$250\$ \$255
- Gln Asp Leu Arg Ser Tyr Leu Gly Asp Gly Pro Leu Gln His Tyr Ile 260 265 270
- Ala Val Ser Ser Pro Thr Asn Thr Thr Tyr Val Val Gln Tyr Ala Leu 275 280 285
- Ala Asn Leu Thr Gly Thr Val Val Asn Leu Thr Arg Glu Gln Cys Gln 290 295 300
- Asp Pro Ser Lys Val Pro Ser Glu Asn Lys Asp Leu Tyr Glu Tyr Ser 305 310 315 320
- Trp Val Gln Gly Pro Leu His Ser Asn Glu Thr Asp Arg Leu Pro Arg 325 330 335
- Cys Val Arg Ser Thr Ala Arg Leu Ala Arg Ala Leu Ser Pro Ala Phe 340 345 350
- Glu Leu Ser Gln Trp Ser Ser Thr Glu Tyr Ser Thr Trp Thr Glu Ser 355 360 365
- Arg Trp Lys Asp Ile Arg Ala Arg Ile Phe Leu Ile Ala Ser Lys Glu 370 375 380
- Leu Glu Leu Ile Thr Leu Thr Val Gly Phe Gly Ile Leu Ile Phe Ser 385 390 395 400
- Leu Ile Val Thr Tyr Cys Ile Asn Ala Lys Ala Asp Val Leu Phe Ile 405 410 415
- Ala Pro Arg Glu Pro Gly Ala Val Ser Tyr 420 425
- <210> 1162
- <211> 417
- <212> PRT
- <213> Homo sapiens
- <400> 1162
- Met Ala Thr Ala Gly Gly Gly Ser Gly Ala Asp Pro Gly Ser Arg Gly
  1 5 10 15
- Leu Leu Arg Leu Leu Ser Phe Cys Val Leu Leu Ala Gly Leu Cys Arg 20 25 30
- Gly Asn Ser Val Glu Arg Lys Ile Tyr Ile Pro Leu Asn Lys Thr Ala 35 40 45

- Pro Cys Val Arg Leu Leu Asn Ala Thr His Gln Ile Gly Cys Gln Ser 50 60
- Ser Ile Ser Gly Asp Thr Gly Val Ile His Val Val Glu Lys Glu Glu 65 70 75 80
- Asp Leu Gln Trp Val Leu Thr Asp Gly Pro Asn Pro Pro Tyr Met Val 85 90 95
- Leu Leu Glu Ser Lys His Phe Thr Arg Asp Leu Met Glu Lys Leu Lys
  100 105 110
- Gly Arg Thr Ser Arg Ile Ala Gly Leu Ala Val Ser Leu Thr Lys Pro 115 120 125
- Ser Pro Ala Ser Gly Phe Ser Pro Ser Val Gln Cys Pro Asn Asp Gly 130 135 140
- Phe Gly Val Tyr Ser Asn Ser Tyr Gly Pro Glu Phe Ala His Cys Arg 145 150 155 160
- Glu Ile Gln Trp Asn Ser Leu Gly Asn Gly Leu Ala Tyr Glu Asp Phe 165 170 175
- Ser Phe Pro Ile Phe Leu Leu Glu Asp Glu Asp Glu Thr Lys Val Ile 180 185 190
- Lys Gln Cys Tyr Gln Asp His Asn Leu Ser Gln Asn Gly Ser Ala Pro 195 200 205
- Thr Phe Pro Leu Cys Ala Met Gln Leu Phe Ser His Met His Ala Val 210 215 220
- Ile Ser Thr Ala Thr Cys Met Arg Arg Ser Ser Ile Gln Ser Thr Phe 225 230 235 240
- Ser Ile Asn Pro Glu Ile Val Cys Asp Pro Leu Ser Asp Tyr Asn Val 245 250 255
- Trp Ser Met Leu Lys Pro Ile Asn Thr Thr Gly Thr Leu Lys Pro Asp 260 265 270
- Asp Arg Val Val Val Ala Ala Thr Arg Leu Asp Ser Arg Ser Phe Phe 275 280 285
- Trp Asn Val Ala Pro Gly Ala Glu Ser Ala Val Ala Ser Phe Val Thr 290 295 300
- Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala Pro Asp Val Thr Thr 305 310 315 320
- Leu Pro Arg Asn Val Met Phe Val Phe Phe Gln Gly Glu Thr Phe Asp 325 330 335
- Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met Glu Lys Gly Lys Phe 340 345 350
- Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val Glu Leu Gly Gln Val 355 360 365

```
Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His Thr Asp Pro Val Ser 370 375 380
```

Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu Asp Leu Leu Ala Thr 385 390 395 400

Leu Glu Thr Val Ser Tyr Ala His Leu Asn Leu Gln Gly Gly Glu Val
405 410 415

Leu

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<210> 1163
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<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1163

Met Ala Thr Ala Gly Gly Gly Ser Gly Ala Asp Pro Gly Ser Arg Gly 1 5 10 15

Leu Leu Arg Leu Leu Ser Phe Cys Val Leu Leu Ala Gly Leu Cys Arg 20 25 30

Gly Asn Ser Val Glu Arg Lys Ile Tyr Ile Pro Leu Asn Lys Thr Ala 35 40 45

Pro Cys Val Arg Leu Leu Asn Ala Thr His Gln Ile Gly Cys Gln Ser 50 55 60

Ser Ile Ser Gly Asp Thr Gly Val Ile His Val Val Glu Lys Glu Glu 65 70 75 80

Asp Leu Gln Trp Val Leu Thr Asp Gly Pro Asn Pro Pro Tyr Met Val 85 90 95

Leu Leu Glu Ser Lys His Phe Thr Arg Asp Leu Met Glu Lys Leu Lys
100 105 110

Gly Arg Thr Ser Arg Ile Ala Gly Leu Ala Val Ser Leu Thr Lys Pro 115 120 125

Ser Pro Ala Ser Gly Phe Ser Pro Ser Val Gln Cys Pro Asn Asp Gly 130 135 140

Phe Gly Val Tyr Ser Asn Ser Tyr Gly Pro Glu Phe Ala His Cys Arg 145 150 155 160

Glu Ile Gln Trp Asn Ser Leu Gly Asn Gly Leu Ala Tyr Glu Asp Phe 165 170 175

Ser Phe Pro Ile Phe Leu Leu Glu Asp Glu Asn Glu Thr Lys Val Ile 180 185 190

<sup>&</sup>lt;211> 709

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

- Lys Gln Cys Tyr Gln Asp His Asn Leu Ser Gln Asn Gly Ser Ala Pro 195 200 205
- Ser Phe Pro Leu Cys Ala Met Xaa Leu Phe Ser His Met His Ala Val 210 215 220
- Ile Ser Thr Ala Thr Cys Met Arg Arg Ser Ser Ile Gln Ser Thr Phe 225 230 235 240
- Ser Ile Asn Pro Glu Ile Val Cys Asp Pro Leu Ser Asp Tyr Asn Val 245 250 255
- Trp Ser Met Leu Lys Pro Ile Asn Thr Thr Gly Thr Leu Lys Pro Asp 260 265 270
- Asp Arg Val Val Val Ala Ala Thr Arg Leu Asp Ser Arg Ser Phe Phe 275 280 285
- Trp Asn Val Ala Pro Gly Ala Glu Ser Ala Val Ala Ser Phe Val Thr 290 295 300
- Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala Pro Asp Val Thr Thr 305 310 315 320
- Leu Pro Arg Asn Val Met Phe Val Phe Gln Gly Glu Thr Phe Asp 325 330 335
- Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met Glu Lys Gly Lys Phe 340 345 350
- Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val Glu Leu Gly Gln Val 355 360 365
- Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His Thr Asp Pro Val Ser 370 380
- Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu Asp Leu Leu Ala Thr 385 390 395 400
- Leu Glu Lys Ser Gly Ala Gly Val Pro Ala Val Ile Leu Arg Arg Pro 405 410 415
- Asn Gln Ser Gln Pro Leu Pro Pro Ser Ser Leu Gln Arg Phe Leu Arg
  420 425 430
- Ala Arg Asn Ile Ser Gly Val Val Leu Ala Asp His Ser Gly Ala Phe
  435 440 445
- His Asn Lys Tyr Tyr Gln Ser Ile Tyr Asp Thr Ala Glu Asn Ile Asn 450 455 460
- Val Ser Tyr Pro Glu Trp Leu Ser Pro Glu Glu Asp Leu Asn Phe Val 465 470 475 480
- Thr Asp Thr Ala Lys Ala Leu Ala Asp Val Ala Thr Val Leu Gly Arg
  485 490 495
- Ala Leu Tyr Glu Leu Ala Gly Gly Thr Asn Phe Ser Asp Thr Val Gln 500 505 510

Ala Asp Pro Gln Thr Val Thr Arg Leu Leu Tyr Gly Phe Leu Ile Lys 515 520 525

Ala Asn Asn Ser Trp Phe Gln Ser Ile Leu Arg Gln Asp Leu Arg Ser 530 540

Tyr Leu Gly Asp Gly Pro Leu Gln His Tyr Ile Ala Val Ser Ser Pro 545 550 555 560

Thr Asn Thr Tyr Val Val Gln Tyr Ala Leu Ala Asn Leu Thr Gly 565 570 575

Thr Val Val Asn Leu Thr Arg Glu Gln Cys Gln Asp Pro Ser Lys Val 580 585 590

Pro Ser Glu Asn Lys Asp Leu Tyr Glu Tyr Ser Trp Val Gln Gly Pro 595 600 605

Leu His Ser Asn Glu Thr Asp Arg Leu Pro Arg Cys Val Arg Ser Thr 610 615 620

Ala Arg Leu Ala Arg Ala Leu Ser Pro Ala Phe Glu Leu Ser Gln Trp 625 630 635 640

Ser Ser Thr Glu Tyr Ser Thr Trp Thr Glu Ser Arg Trp Lys Asp Ile 645 650 655

Arg Ala Arg Ile Phe Leu Ile Ala Ser Lys Glu Leu Glu Leu Ile Thr 660 665 670

Leu Thr Val Gly Phe Gly Ile Leu Ile Phe Ser Leu Ile Val Thr Tyr 675 680 685

Cys Ile Asn Ala Lys Ala Asp Val Leu Phe Ile Ala Pro Arg Glu Pro 690 695 700

Gly Ala Val Ser Tyr 705

<210> 1164

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1164

Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu 1 5 10 15

Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr 20 25 30

Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val 35 40 45

Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg 50 55 60

Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala 65 70 75 80

Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys 85 90 95

Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro
100 105 110

Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly 115 120 125

Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn 130 135 140

Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu 145 150 155 160

Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp 165 170 175

Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser 180 185 190

Ala Gly Arg Trp Lys Ser Arg Tyr Cys Lys Ser Cys Ser Gly Leu Leu 195 200 205

Pro Val Ser Ser Pro Glu Ala Lys Glu Thr His Arg Phe Gly Cys Arg 210 215 220

Tyr Val Ser Gln Phe Thr 225 230

<210> 1165

<211> 293

<212> PRT

<213> Homo sapiens

<400> 1165

Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu 1 5 10 15

Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr 20 25 30

Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val 35 40 45

Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg 50 55 60

Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala 65 70 75 80

Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys
85 90 95

Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro

Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly 115 120 125

Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn 130 135 140

Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu 145 150 155 160

Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp 165 170 175

Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser 180 185 190

Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala Gln Asp Phe Cys
195 200 205

Gln Leu Val Ala Gln Lys Gln Lys Arg Pro Thr Asp Leu Asp Val Asp 210 215 220

Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro Asp Pro Asp Leu 225 230 235 240

Val Leu Lys Phe Gly Pro Val Asp Ser Thr Leu Gly Phe Leu Pro Trp 245 250 255

His Ile Arg Leu Thr Glu Ile Val Ser Leu Pro Ser His Leu Asn Ile 260 265 270

Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr Ala Ala Cys Glu 275 280 285

Gln Arg Leu Gly Lys 290

<210> 1166

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1166
Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu
Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
                                 25
Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
                             40
Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
                         55
Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val
                     70
Leu Val Asn Thr Xaa Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
                 85
                                     90
Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly
                                105
Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Xaa
                            120
Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro
                        135
                                            140
Leu Xaa Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Xaa
                                        155
145
Ile Arg Thr Val Tyr Asn Arg Xaa Lys Leu Met Xaa Met
                165
<210> 1167
<211> 173
<212> PRT
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<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;220>

<sup>&</sup>lt;221> SITE

<sup>&</sup>lt;222> (146)

<sup>&</sup>lt;223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1167
Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu
Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val
                     70
 65
Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
                                      90
Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly
            100
Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly
                             120
        115
Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro
                         135
    130.
Leu Xaa Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Xaa
                                         155
                     150
Ile Arg Thr Val Tyr Asn Arg Xaa Lys Leu Met Xaa Met
                                     170
                165
<210> 1168
<211> 314
<212> PRT
<213> Homo sapiens
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<222> (93)
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638

<220> <221> SITE <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168

Glu Lys Ala Ala Gly Ala Gly Lys Ser His Leu Ala Ile Val Gln Lys
1 5 10 15

Val Asn Asn Glu Gly Glu Gly Asp Pro Phe Tyr Glu Val Leu Gly Leu 20 25 30

Val Thr Leu Glu Asp Val Ile Glu Glu Ile Ile Lys Ser Glu Ile Leu 35 40 45

Asp Glu Ser Asp Met Tyr Thr Asp Asn Arg Ser Arg Lys Arg Val Ser 50 55 60

Glu Lys Asn Lys Arg Asp Phe Ser Ala Phe Lys Asp Ala Asp Asn Glu 65 70 75 80

Leu Lys Val Lys Ile Ser Pro Gln Leu Leu Leu Ala Xaa His Arg Phe 85 90 95

Leu Ala Thr Glu Val Ser Gln Phe Ser Pro Ser Leu Ile Ser Glu Lys
100 105 110

Ile Leu Leu Arg Leu Leu Lys Tyr Pro Asp Val Ile Gln Glu Leu Lys 115 120 125

Phe Asp Glu His Asn Lys Tyr Tyr Ala Arg His Tyr Leu Tyr Thr Arg 130 135 140

Asn Lys Pro Ala Asp Tyr Phe Ile Leu Ile Leu Gln Gly Lys Val Glu 145 150 155 160

Val Glu Ala Gly Lys Glu Asn Met Lys Phe Glu Thr Gly Ala Phe Ser 165 170 175

Tyr Tyr Gly Thr Met Ala Leu Thr Ser Val Pro Ser Asp Arg Ser Pro 180 185 190

Ala His Pro Thr Pro Leu Ser Arg Ser Ala Ser Leu Ser Tyr Pro Asp 195 200 205

Arg Thr Asp Val Ser Thr Ala Ala Thr Leu Ala Gly Ser Ser Asn Gln 210 215 220

Phe Gly Ser Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser Val Arg 225 230 235 240

Ala Leu Val Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln Tyr Gln 245 250 255

Asn Gly Leu Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe Pro Ile 260 265 270

Asp Gly Cys Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser Glu Leu 275 280 285

Pro Val Val Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn Ser Leu 290 295 300

Leu His Lys Ala Ser His Glu Asn Ala Ile 305 310

<210> 11.69

<211> 604

<212> PRT

<213> Homo sapiens

<400> 1169

Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu 1 5 10 15

Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn 20 25 30

Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn 35 40 45

Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile 50 55 60

Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Gly Asn Val 65 70 75 80

Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser 85 90 95

Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly
100 105 110

Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly
115 120 125

Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro 130 135 140

Ile Arg Thr Val Tyr Asn Arg Glu Lys Leu Met Glu Met Leu Lys Val 165 170 175

Thr Glu Pro Tyr Asn Asp Leu Val Lys Glu Glu Leu Asn Met Ile Gln 180 185 190

Gly Ala Leu Glu Leu Arg Thr Lys Thr Val Glu Asp Ile Met Thr Gln 195 200 205

Leu Gln Asp Cys Phe Met Ile Arg Ser Asp Ala Ile Leu Asp Phe Asn 210 220

Thr Met Ser Glu Ile Met Glu Ser Gly Tyr Thr Arg Ile Pro Val Phe 225 230 235 240

Glu Asp Glu Gln Ser Asn Ile Val Asp Ile Leu Tyr Val Lys Asp Leu 245 250 255

Ala Phe Val Asp Pro Asp Asp Cys Thr Pro Leu Lys Thr Ile Thr Arg

Phe	Tyr	Asn 275	His	Pro	Val	His	Phe 280	Val	Phe	His	Asp	Thr 285	Lys	Leu	Asp
Ala	Met 290	Leu	Glu	Glu	Phe	Lys 295	Lys	Gly	Lys	Ser	His 300	Leu	Ala	Ile	Val
Gln 305	Lys	Val	Asn	Asn	Glu 310	Gly	Ģlu	Gly	Asp	Pro 315	Phe	Tyr	Glu	Val	Leu 320
Gly	Leu	Val	Thr	Leu 325	Glu	Asp	Val	Ile	Glu 330	Glu	Ile	Ile	Lys	Ser 335	Glu
Ile	Leu	Asp	Glu 340	Ser	Asp	Met	Tyr	Thr 345	Asp	Asn	Arg	Ser	Arg 350	Lys	Arg
Val	Ser	Glu 355	Lys	Asn	Lys	Arg	Asp 360	Phe	Ser	Ala	Phe	Lys 365	Asp	Ala	Asp
Asn	Glu 370	Leu	Lys	Val	Lys	Ile 375	Ser	Pro	Gln	Leu	Leu 380	Leu	Ala	Ala	His
Arg 385	Phe	Leu	Ala	Thr	Glu 390	Val	Ser	Gln	Phe	Ser 395	Pro	Ser	Leu	Ile	Ser 400
Glu	Lys	Ile	Leu	Leu 405	Arg	Leu	Leu	Lys	Tyr 410	Pro	Asp	Val	Ile	Gln 415	Glu
Leu	Lys	Phe	Asp 420	Glu	His	Asn	Lys	Tyr 425	Tyr	Ala	Arg	His	Tyr 430	Leu	Tyr
Thr	Arg	Asn 435	Lys	Pro	Ala	Asp	Tyr 440	Phe	Ile	Leu	Ile	Leu 445	Gln	Gly	Lys
Val	Glu 450	Val	Glu	Ala	Gly	Lys 455	Glu	Asn	Met	Lys	Phe 460	Glu	Thr	Gly	Ala
Phe 465	Ser	Tyr	Tyr	Gly	Thr 470	Met	Ala	Leu	Thr	Ser 475	Val	Pro	Ser	Asp	Arg 480
Ser	Pro	Ala	His	Pro 485	Thr	Pro	Leu	Ser	Arg 490	Ser	Ala	Ser	Leu	Ser 495	Tyr
Pro	Asp	Arg	Thr 500	Asp	Val	Ser	Thr	Ala 505	Ala	Thr	Leu	Ala	Gly 510	Ser	Ser
Asn	Gln	Phe 515	Gly	Ser	Ser	Val	Leu 520	Gly	Gln	Tyr	Ile	Ser 525	Asp	Phe	Ser
Val	Arg 530	Ala	Leu	Val	Asp	Leu 535	Gln	Ţyr	Ile	Lys	Ile 540	Thr	Arg	Gln	Gln
Tyr 545	Gln	Asn	Gly	Leu	Leu 550	Ala	Ser	Arg	Met	Glu 555	Asn	Ser	Pro	Gln	Phe 560
Pro	Ile	Asp	Gly	Cys 565	Thr	Thr	His	Met	Glu 570	Asn	Leu	Ala	Glu	Lys 575	Ser
Glu	Leu	Pro	Val	Val	Asp	Glu	Thr		Thr 641	Leu	Leu	Asn	Glu	Arg	Asn

Ser Leu Leu His Lys Ala Ser His Glu Asn Ala Ile 595 600

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<210> 1170
<211> 189
<212> PRT
<213> Homo
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<213> Homo sapiens

580

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

585

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1170

Met Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu 1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala 20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala 35 40 45

Cys Gly Thr Val Gly Leu Leu Glu His Ser Phe Glu Ile Asp Asp 50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp 65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly 85 90 95

Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile 100 105 110

Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val 115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp 130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser 145 150 155 160

Val Val Thr His Pro Met Ala Pro Xaa Ser Pro Xaa Gly Phe Pro Leu 165 170 175 Pro Trp Ser Xaa Ala Glu Ile Leu Ala Thr Ile Gln Phe
180 185

<210> 1171

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1171

Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu Met Ala 1 5 10 15

Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala Gly Thr 20 25 30

Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala Cys Gly
35 40 45

Thr Val Gly Leu Leu Glu His Ser Phe Glu Ile Leu Ala Thr Met 50 55 60

Pro Val Leu Thr Ser His Pro Pro Thr Pro Ser Pro Cys Ser Leu Gly 65 70 75 80

Thr Cys Arg Leu Leu Ser Ser Leu Cys Ala Phe Val Pro Gly Gly Leu 85 90 95

Thr Leu Leu Ser Leu Ala Gly Leu Gly Gly Pro Val Gln Ala Pro Ala 100 105 110

Ala Pro Pro Ser Leu 115

<210> 1172

<211> 241

<212> PRT

<213> Homo sapiens

<400> 1172

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu 1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala 35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp 50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp 65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly

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Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile
100 105 110
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Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp 130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser 145 150 155 160

Val Val Thr His Pro Met Ala Pro Cys Ser Pro Arg Gly Phe Pro Pro 165 170 175

Ala His Gly Val Glu Pro Glu Ile Leu Ala Thr Met Pro Val Leu Thr 180 185 190

Ser His Pro Pro Thr Pro Ser Pro Cys Ser Leu Gly Thr Cys Arg Leu
195 200 205

Leu Ser Ser Leu Cys Ala Phe Val Pro Gly Gly Leu Thr Leu Leu Ser 210 215 220

Leu Ala Gly Leu Gly Gly Pro Val Gln Ala Pro Ala Ala Pro Pro Ser 225 230 235 240

Leu

<210> 1173

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1173

Met Phe Leu Leu Phe Leu Leu Thr Cys Glu Leu Ala Ala Glu Val Ala 1 5 10 15

Ala Glu Val Glu Lys Ser Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro
20 25 30

Thr Trp Leu Thr Asp Val Pro Ala Ala Met Glu Phe Ile Ala Ala Thr 35 40 45

Glu Val Ala Val Ile Gly Phe Phe Gln Asp Leu Glu Ile Pro Ala Val 50 55 60

Pro Ile Leu His Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly 65 70 75 80

Ile Ser Thr Asp Ser Glu Val Leu Thr His Tyr Asn Ile Thr Gly Asn 85 90 95

Thr Ile Cys Leu Phe Arg Leu Val Asp Asn Glu Gln Leu Asn Leu Glu

105

Asp Glu Asp Ile Glu Ser Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile

120

Glu Ile Asn Ser Leu His Met Val Thr Glu Tyr Asn Pro Val Thr Val 130 135 140

Ile Gly Leu Phe Asn Ser Val Ile Gln Ile His Leu Leu Leu Ile Met 145 150 155 160

Asn Lys Ala Ser Pro Glu Tyr Glu Glu Asn Met His Arg Tyr Gln Lys 165 170 175

Ala Ala Lys Leu Phe Gln Gly Lys Ile Leu Phe Ile Leu Val Asp Ser 180 185 190

Gly Met Lys Glu Asn Gly Lys Val Ile Ser Phe Phe Lys Leu Lys Glu 195 200 205

Ser Gln Leu Pro Ala Leu Xaa Ile Tyr Gln Thr Leu Asp Asp Glu Trp 210 215 220

Asp Thr Leu Pro Thr Ala Glu Val Ser Val Glu His Val Gln Asn Phe 225 230 235 240

Cys Asp Gly Phe Leu Ser Gly Lys Leu Leu Lys Glu Asn Arg Glu Ser 245 250 255

Glu Gly Lys Thr Pro Lys Val Glu Leu 260 265

<210> 1174

<211> 265

<212> PRT

<213> Homo sapiens

<400> 1174

Met Phe Leu Leu Phe Leu Leu Thr Cys Glu Leu Ala Ala Glu Val Ala 1 5 10 15

Ala Glu Val Glu Lys Ser Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro 20 25 30

Thr Trp Leu Thr Asp Val Pro Ala Ala Met Glu Phe Ile Ala Ala Thr 35 40 45

Glu Val Ala Val Ile Gly Phe Phe Gln Asp Leu Glu Ile Pro Ala Val 50 55 60

Pro Ile Leu His Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly 65 70 75 80

Ile Ser Thr Asp Ser Glu Val Leu Thr His Tyr Asn Ile Thr Gly Asn

Thr Ile Cys Leu Phe Arg Leu Val Asp Asn Glu Gln Leu Asn Leu Glu
100 105 110

90

Asp Glu Asp Ile Glu Ser Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile 115 120 125

Glu Ile Asn Ser Leu His Met Val Thr Glu Tyr Asn Pro Val Thr Val 130 135 140

Ile Gly Leu Phe Asn Ser Val Ile Gln Ile His Leu Leu Leu Ile Met 145 150 155 160

Asn Lys Ala Ser Pro Glu Tyr Glu Glu Asn Met His Arg Tyr Gln Lys 165 170 175

Ala Ala Lys Leu Phe Gln Gly Lys Ile Leu Phe Ile Leu Val Asp Ser 180 185 190

Gly Met Lys Glu Asn Gly Lys Val Ile Ser Phe Phe Lys Leu Lys Glu 195 200 205

Ser Gln Leu Pro Ala Leu Ala Ile Tyr Gln Thr Leu Asp Asp Glu Trp 210 220

Asp Thr Leu Pro Thr Ala Glu Val Ser Val Glu His Val Gln Asn Phe 225 230 235 240

Cys Asp Gly Phe Leu Ser Gly Lys Leu Leu Lys Glu Asn Arg Glu Ser 245 250 255

Glu Gly Lys Thr Pro Lys Val Glu Leu 260 265

<210> 1175

<211> 158

<212> PRT.

<213> Homo sapiens

<400> 1175

Met Arg Arg Thr Thr Leu Ser Leu Leu Trp Thr Gly Ser Leu Pro Ala 1 5 10 15

Pro Pro Ala Thr Thr Ser Gly Gly Ala Ala Cys Pro Ser Gly Arg Arg 20 25 30

Tyr Pro Gly Ala Gly Asn Ala Gly Ser Ala Thr Ser Gln Cys Gln Leu

Thr Arg Cys Gly Ala Trp Leu Ser Ser Thr Ala Arg Ser Val Gly Thr 50 55 60

Thr Ser Gly Ala Gly His Arg Trp Gly Pro Arg Pro Pro Ala Thr Gly 65 70 75 80

Ala Ala Ser Pro Cys Ile Gln His Gly Ser Ser Pro Arg Ala Gly Thr 85 90 95 Gly Thr Arg Ile Ala Ala Ala Pro Thr Leu Thr Pro Ala Gln Leu Pro 100 105 110

Thr Ala Thr Thr Gly Glu Ser Pro Thr Cys Leu Gly His Pro Val Leu 115 120 125

Thr Pro Arg Ala Gly Ser Arg Thr Thr Cys Pro Lys Cys Ser Thr Pro 130 135 140

Ala Thr Leu Thr Leu Ala Val Ala Pro Leu Trp Pro Pro Ala 145 150 155

<210> 1176

<211> 291

<212> PRT

<213> Homo sapiens

<400> 1176

Met Ser Gln Glu Gly Val Glu Leu Glu Lys Ser Val Arg Arg Leu Arg 1 5 10 15

Glu Lys Phe His Gly Lys Val Ser Ser Lys Lys Ala Gly Ala Leu Met 20 25 30

Arg Lys Phe Gly Ser Asp His Thr Gly Val Gly Arg Ser Ile Val Tyr 35 40 45

Gly Val Lys Gln Lys Asp Gly Gln Glu Leu Ser Asn Asp Leu Asp Ala
50 55 60

Gln Asp Pro Pro Glu Asp Met Lys Gln Asp Arg Asp Ile Gln Ala Val 65 70 75 80

Ala Thr Ser Leu Leu Pro Leu Thr Glu Ala Asn Leu Arg Met Phe Gln
85 90 95

Arg Ala Gln Asp Asp Leu Ile Pro Ala Val Asp Arg Gln Phe Ala Cys
100 105 110

Ser Ser Cys Asp His Val Trp Trp Arg Arg Val Pro Gln Arg Lys Glu 115 120 125

Val Ser Arg Cys Arg Lys Cys Arg Lys Arg Tyr Glu Pro Val Pro Ala 130 135 140

Asp Lys Met Trp Gly Leu Ala Glu Phe His Cys Pro Lys Cys Arg His 145 150 155 160

Asn Phe Arg Gly Trp Ala Gln Met Gly Ser Pro Ser Pro Cys Tyr Gly 165 170 175

Cys Gly Phe Pro Val Tyr Pro Thr Arg Ile Leu Pro Pro Arg Trp Asp 180 185 190

Arg Asp Pro Asp Arg Arg Ser Thr His Thr His Ser Cys Ser Ala Ala 195 200 205 Asp Cys Tyr Asn Arg Arg Glu Pro His Val Pro Gly Thr Ser Cys Ala 210 215 220

His Pro Lys Ser Arg Lys Gln Asn His Leu Pro Lys Val Leu His Pro 225 230 235 240

Ser Asn Pro His Ile Ser Ser Gly Ser Thr Val Ala Thr Cys Leu Ser 245 250 255

Gln Gly Gly Leu Leu Glu Asp Leu Asp Asn Leu Ile Leu Glu Asp Leu 260 265 270

Lys Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Glu Gly Gly 275 280 285

Pro Arg Glu 290

<210> 1177

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1177

Met Arg Gly Thr Gln Leu Val Leu Leu Ala Leu Val Leu Ala Ala Cys
1 5 10 15

Gly Glu Leu Ala Pro Ala Leu Arg Cys Tyr Val Cys Pro Glu Pro Thr 20 25 30

Gly Val Ser Asp Cys Val Thr Ile Ala Thr Cys Thr Thr Asn Glu Thr 35 40 45

Met Cys Lys Thr Thr Leu Tyr Ser Arg Glu Ile Val Tyr Pro Phe Gln 50 60

Gly Asp Ser Thr Val Thr Lys Ser Cys Ala Ser Lys Cys Lys Pro Ser 65 70 75 80

Asp Val Asp Gly Ile Gly Gln Thr Leu Pro Val Ser Cys Cys Asn Thr 85 90 95

Glu Leu Cys Asn Val Asp Gly Ala Pro Ala Leu Asn Ser Leu His Cys 100 105 110

Gly Ala Leu Thr Leu Leu Pro Leu Leu Ser Leu Arg Leu
115 120 125

<210> 1178

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1178
Gly Thr Gln Xaa Ala Leu
<210> 1179
<211> 125
<212> PRT
<213> Homo sapiens
<400> 1179
Met Arg Gly Thr Gln Leu Val Leu Leu Ala Leu Val Leu Ala Ala Cys
Gly Glu Leu Ala Pro Ala Leu Arg Cys Tyr Val Cys Pro Glu Pro Thr
Gly Val Ser Asp Cys Val Thr Ile Ala Thr Cys Thr Thr Asn Glu Thr
                             40
Met Cys Lys Thr Thr Leu Tyr Ser Arg Glu Ile Val Tyr Pro Phe Gln
                         55
Gly Asp Ser Thr Val Thr Lys Ser Cys Ala Ser Lys Cys Lys Pro Ser
                     70
                                         75
Asp Val Asp Gly Ile Gly Gln Thr Leu Pro Val Ser Cys Cys Asn Thr
                                     90
Glu Leu Cys Asn Val Asp Gly Ala Pro Ala Leu Asn Ser Leu His Cys
                                105
Gly Ala Leu Thr Leu Leu Pro Leu Leu Ser Leu Arg Leu
                            120
<210> 1180
<211> 132
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1180
Met Pro Asp Val Gln Gly Pro Trp His Pro Ala His Pro Pro Ile Pro
```

Ser Ala Ala Leu Cys Leu Leu Trp Pro His Cys Leu Ala Ala Pro Lys

Tyr Ala Arg Pro Arg Cys Leu Leu Val Phe Val Leu Cys Asp Arg Ser 35 40 45

Ala Trp Asn Ile Leu Leu Tyr Ser Val Gly Ser Lys Val Ser Gly Leu 50 55 60

Cys Ser Asn Cys Ser Leu Val Pro Gly Val Val Ala His Thr Cys Asn 65 70 75 80

Pro Lys Val Pro Leu Gly Leu Gln Gly Cys Glu Leu Pro Cys Pro Ala 85 90 95

Glu His Leu Ile Phe Ser Lys Xaa Leu Ser Ser Cys Ala Thr Trp Ala 100 105 110

His Cys Phe Leu Gly Leu Ser Xaa Cys Trp Cys Leu His Pro His Pro 115 120 125

His Pro Ser Trp 130

<210> 1181

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1181

Ser Gly Leu Ala Trp Ala Leu Leu Ser Leu Pro Gly Gly Leu Arg
1 10 15

Ser Ser Ser Ala Arg Leu Pro Pro Glu Pro Phe His Gly Gln Gly Leu 20 25 30

Ser Ser Val Gly Ala Ile Arg Arg Arg Val Cys Arg Ser Val Arg Leu 35 40 45

Gly Asp Pro Trp Gly Met Glu Gly Thr Thr Arg Pro Phe Pro Ser Val 50 55 60

Pro Cys Gln Ala Val Leu Thr Ala Ala Ser Ser Gln Gly Arg Lys Pro 65 70 75 80

Gly Gln Arg Gln Arg Leu Leu Val Pro Ser Ile Pro 85 90

<210> 1182

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1182

Thr Phe Arg Leu Val Ser Ala His Leu Lys Thr Arg Lys Leu Ile Asn 1 5 10

- Pro Glu Ala Ala Glu Arg Arg Trp Arg Asp Trp Asp Ser Arg Gln Gly 20 25 30
- Trp Leu Ser Val Lys Met Gln Arg Val Ser Gly Leu Leu Ser Trp Thr 35 40 45
- Leu Ser Arg Val Leu Trp Leu Ser Gly Leu Ser Glu Pro Gly Ala Ala 50 55 60
- Arg Gln Pro Arg Ile Met Glu Glu Lys Ala Leu Glu Val Tyr Asp Leu 65 70 75 80
- Ile Arg Thr Ile Arg Asp Pro Glu Lys Pro Asn Thr Leu Glu Glu Leu 85 90 95
- Glu Val Val Ser Glu Ser Cys Val Glu Val Gln Glu Ile Asn Glu Glu
  100 105 110
- Glu Tyr Leu Val Ile Ile Arg Phe Thr Pro Thr Val Pro His Cys Ser 115 120 125
- Leu Ala Thr Leu Ile Val Gly Asn Leu His Phe 130 135
- <210> 1183
- <211> 143
- <212> PRT
- <213> Homo sapiens
- <400> 1183
- Met Pro Asp Val Gln Gly Pro Trp His Pro Ala His Pro Pro Ile Pro 1 5 10
- Ser Ala Ala Leu Cys Leu Leu Trp Pro His Cys Leu Ala Ala Pro Lys 20 25 30
- Tyr Ala Arg Pro Arg Cys Leu Leu Val Phe Val Leu Cys Asp Arg Ser 35 40 45
- Ala Trp Asn Ile Leu Leu Tyr Ser Val Gly Ser Lys Val Ser Gly Leu 50 55 60
- Cys Ser Asn Cys Ser Leu Val Pro Gly Val Val Ala His Thr Cys Asn 65 70 75 80
- Pro Lys Val Pro Leu Gly Leu Gln Gly Cys Glu Leu Pro Cys Pro Ala 85 90 95
- Glu His Leu Ile Phe Ser Lys Cys Leu Ser Ser Cys Ala Thr Trp Ala 100 105 110
- His Cys Phe Leu Gly Leu Ser Cys Cys Trp Cys Leu His Pro His Pro
- His Pro Ser Trp Pro Ala Pro Phe Leu Ser Arg Trp Ala His Val 130 135 140

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<210> 1184
<211> 13
<212> PRT
<213> Homo sapiens
<400> 1184
Met Gly Gln Gly Ala Cys Lys Asn Met Ser Val Gly Ser
<210> 1185
<211> 102
<212> PRT
<213> Homo sapiens
<400> 1185
Asn Ser Glu Lys Gly Gln Lys Lys Gln Arg Gly Pro Arg Trp Ile Cys
Gln Leu Phe Cys Arg Cys Phe Leu Pro Leu Leu Trp Val Val Cys Ser
                                 25
Pro Leu Gln Thr Ser Ala Arg Arg Glu Gly Leu Asn Leu Pro Ala Pro
                            - 40
Gln Asp Leu Leu Pro Ser Gly Pro Ser Pro Ala Leu Arg Ser Leu Pro
Asp Arg Arg Val Asp Arg Ala Thr Trp Ala Ala Arg Glu Thr His Gly
Gly Pro Pro Cys Gly Gln Pro Cys Gln Leu Pro Pro Ser Pro Glu Leu
His Leu His Leu Glu Glu
            100
<210> 1186
<211> 259
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1186
Ala Gly Ala Trp Val Ser Leu Gly Pro Cys Leu Phe Pro Ala Pro Ala
Asp Ser Glu Gln Arg Pro Trp Val Arg Arg Val Gly Val Gly Pro Leu
             20
Pro Ala Glu Pro Gly Gln Gly Glu Leu Gln Glu Ser Pro Leu Cys Pro
```

Cys Ser Trp Asn Val Pro Gln Arg Pro His Leu Lys Gly Xaa Cys Ala 50 55 60

Gly Gly Val Ala Gln Ser His Thr Ala Ser Thr Leu Ser Ser Gly Thr 65 70 75 80

Gly Asp Ser Gly Cys Ser Gly Lys Gly Leu Leu Asp Val Thr Tyr Asn 90 95

Ser Val Arg Leu Glu Thr Asp Ala Gly Gly Gly Arg Ala Gly Pro Pro 100 105 110

Gly Ile Thr Asp His Arg Lys Met Gly Gly Gly Ser Arg Gly Pro Ala 115 120 125

Pro Thr Pro Ser Cys Leu Thr Leu Leu Ser Cys Pro His Pro Cys Ala 130 135 140

Phe Val Pro Glu Thr Arg Val Ala Thr Gln Ala Gly Pro Gly Ser Ser 145 150 155 160

Leu Ile Leu Pro Leu Pro Ser Glu Pro Cys Ser Ser Leu Pro Ser Pro 165 170 175

Leu Pro Pro Leu Pro Arg Arg Val Thr Ser Asp Arg Ala Pro Leu Ala 180 185 190

Ile Gln Gly Gly Ser Arg Gly Leu Asp Arg Arg Ala Arg Arg Leu Pro 195 200 205

Ala Val Ala Gly Ala Ser Cys Pro Cys Arg Val Gly Glu Leu Ser Gly 210 215 220

Arg Glu Pro Tyr Leu Pro Ser Ala Lys Thr Val Lys Val Tyr Arg Leu 225 230 235 240

Phe Thr Asp Phe Tyr Leu Asn Cys Lys Ser Ala Asp Phe Val Asn Val 245 250 255

Leu Gly Val

<210> 1187

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1187

Met Gly Gln Gly Ala Cys Gln Lys Tyr Val Cys Trp Phe Leu Asn Val 1 5 10

Val Cys Pro Cys Pro Pro Gly Ser Gly Arg Val His Val Ser Pro His 20 25 30

Thr Cys Ala Arg Glu Gly Ala Ser Trp Arg Gly Asp Ser Arg Ala Arg
35 40 45

Gly Leu His Leu Trp Leu Pro Leu Ala Ser Leu Gly Gly Pro Gly Leu
50 60

Pro Gly Ser Gln Ala Leu Ser Cys Gly Thr Trp His Leu Ala Asp Gln 65 70 75 80

Leu Ala Gly Arg Lys Ile Gly Gly His Arg Ala Gly Gly Gln Cys Pro 85 90 95

Leu Pro Val Ser Ile Arg Ser Thr Cys His Cys Met Gln Pro Val Gly 100 105 110

Thr Phe Leu Ala Val Arg Asn 115

<210> 1188

<211> 177

<212> PRT

<213> Homo sapiens

<400> 1188

Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro 1 5 10 15

Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly 20 25 30

Leu Leu Gly Glu Lys Thr Arg Gln Val Ser Leu Glu Val Ile Pro Asn 35 40 45

Trp Leu Gly Pro Leu Gln Asn Leu Leu His Ile Arg Ala Val Gly Thr 50 55 60

Asn Ser Thr Leu His Tyr Val Trp Ser Ser Leu Gly Pro Leu Ala Val 65 70 75 80

Val Met Val Ala Thr Asn Thr Pro His Ser Thr Leu Ser Val Asn Trp 85 90 95

Ser Leu Leu Ser Pro Glu Pro Asp Gly Gly Leu Met Val Leu Pro 100 105 110

Lys Asp Ser Ile Gln Phe Ser Ser Ala Leu Val Phe Thr Arg Leu Leu 115 120 125

Glu Phe Asp Ser Thr Asn Val Ser Asp Thr Ala Ala Lys Pro Leu Gly 130 135 140

Thr Asp Ser Leu Asp Pro Ala Thr Leu Ser Ala Thr Phe Gln Gly Thr 165 170 175

Pro

<210> 1189

<211> 330

<212> PRT

<213> Homo sapiens .

<400> 1189

Arg Pro Thr Arg Pro Leu Asn Cys Gly Arg Met Arg Gly Ser Val Glu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Cys Thr Trp Gly Trp Gly His Cys Ala Pro Ser Pro Leu Leu Trp 20 25 30

Thr Leu Leu Phe Ala Ala Pro Phe Gly Leu Leu Gly Glu Lys Thr 35 40 45

Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn Val Ser Asp Thr Ala Ala 50 55 60

Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr Ser Leu Ala Asp Phe Ser 65 70 75 80

Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro Ala Thr Leu Ser Ala Thr 85 90 95

Phe Gln Gly His Pro Met Asn Asp Pro Thr Arg Thr Phe Ala Asn Gly 100 105 110

Ser Leu Ala Phe Arg Val Gln Ala Phe Ser Arg Ser Ser Arg Pro Ala 115 120 125

Gln Pro Pro Arg Leu Leu His Thr Ala Asp Thr Cys Gln Leu Glu Val 130 135 140

Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn Arg Ser Leu Phe Gly Leu 145 150 155 160

Glu Val Ala Thr Leu Gly Gln Gly Pro Asp Cys Pro Ser Met Gln Glu 165 170 175

Gln His Ser Ile Asp Asp Glu Tyr Ala Pro Ala Val Phe Gln Leu Asp 180 185 190

Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly Phe Ala Gln Trp Arg Pro 195 200 205

Val Ala Tyr Ser Gln Lys Pro Gly Gly Arg Glu Ser Ala Leu Pro Cys 210 220

Gln Ala Ser Pro Leu His Pro Ala Leu Ala Tyr Ser Leu Pro Gln Ser 225 230 235 240

Pro Ile Val Arg Ala Phe Phe Gly Ser Gln Asn Asn Phe Cys Ala Phe 245 250 255

Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro Gly Tyr Trp Asp Gln His 260 265 270

Tyr Leu Ser Trp Ser Met Leu Leu Gly Val Gly Phe Pro Pro Val Asp 275 280 285 Gly Leu Ser Pro Leu Val Leu Gly Ile Met Ala Val Ala Leu Gly Ala 290 295 300

Pro Gly Leu Met Leu Leu Gly Gly Gly Leu Val Leu Leu Leu His His 305 310 315 320

Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn 325 330

<210> 1190

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1190

Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Cys Ala 1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Pro Pro Gly Ser Cys
20 25 30

Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro 35 40 45

Gly Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg 50 55 60

Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile 65 70 75 80

Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg 85 90 95

<210> 1191

<211> 234

<212> PRT

<213> Homo sapiens

<400> 1191

Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala 1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
20 25 30

Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro 35 40 45

Arg Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala 50 55 60

Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Ile Glu Glu Gly Asp 65 70 75 80

Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile

Asp Pro Ser Lys Pro Glu Ser Ile Leu Lys Met Thr Lys Lys Gly Lys 100 . 105 110

Thr Leu Met Met Phe Val Thr Val Ser Gly Ser Pro Thr Glu Lys Glu 115 120 125

Thr Glu Glu Ile Thr Ser Leu Trp Gln Gly Ser Leu Phe Asn Ala Asn 130 135 140

Tyr Asp Val Gln Arg Phe Ile Val Gly Ser Asp Arg Ala Ile Phe Met 145 150 155 160

Leu Arg Asp Gly Ser Tyr Ala Trp Glu Ile Lys Asp Phe Leu Val Gly 165 170 175

Gln Asp Arg Cys Ala Asp Val Thr Leu Glu Gly Gln Val Tyr Pro Gly 180 185 190

Lys Gly Gly Gly Ser Lys Glu Lys Asn Lys Thr Lys Gln Asp Lys Gly
195 200 205

Lys Lys Lys Glu Gly Asp Leu Lys Ser Arg Ser Ser Lys Glu Glu 210 215 220

Asn Arg Ala Gly Asn Lys Arg Glu Asp Leu 225 230

85

<210> 1192

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1192

Met Arg Ala Leu Ser Gly Gly Glu Arg Ser Phe Ser Thr Val Cys Phe

1 5 10 15

Ile Leu Ser Leu Trp Ser Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp 20 25 30

Glu Phe Asp Val Tyr Met Asp Met Val Asn Arg Arg Ile Ala Met Asp 35 40 45

Leu Ile Leu Lys Met Ala Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu 50 55 60

Leu Thr Pro Gln Ser Met Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg
65 70 75 80

Ile Leu Arg Met Ser Asp Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe 85 90 95

Arg Pro Val Thr Gln Glu Glu Asp Asp Asp Gln Arg

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<210> 1193
<211> 108
<212> PRT
<213> Homo sapiens
<400> 1193
Met Arg Ala Leu Ser Gly Gly Glu Arg Ser Phe Ser Thr Val Cys Phe
                                     10
Ile Leu Ser Leu Trp Ser Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp
                                 25
Glu Phe Asp Val Tyr Met Asp Met Val Asn Arg Arg Ile Ala Met Asp
Leu Ile Leu Lys Met Ala Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu
Leu Thr Pro Gln Ser Met Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg
Ile Leu Arg Met Ser Asp Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe
Arg Pro Val Thr Gln Glu Glu Asp Asp Gln Arg
            100
                                105
<210> 1194
<211> 147
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1194
Arg Leu Leu His Phe Asn Cys His Ser Gly Phe Leu Thr Gln Ser Pro
Tyr Cys Arg Gln Ala Arg His Arg Xaa Leu His Gln Gly Xaa Xaa Pro
             20
                               . 25
Ala Ala Ala Arg Leu Trp Cys Asp Cys Gln Arg Pro Ala Pro Arg Val
```

Ala Arg Thr Glu Leu Gly Arg His Thr Gly Ile His Gly Ser Thr Phe

Ser Ser Thr Thr Leu Gly Pro Ile Phe Trp Leu Leu Val Lys Ser Pro 65 70 75 80

Glu Leu Ala Ala Gln Pro Ser Thr Tyr Leu Ala Val Ala Glu Glu Leu 85 90 95

Ala Asp Val Ser Gly Lys Tyr Phe Asp Gly Leu Lys Gln Lys Ala Pro
100 105 110

Ala Pro Glu Ala Glu Asp Glu Glu Val Ala Arg Arg Leu Trp Ala Glu 115 120 125

Ser Ala Arg Leu Val Gly Leu Glu Ala Pro Ser Val Arg Glu Gln Pro 130 135 140

Leu Pro Arg 145

<210> 1195

<211> 240

<212> PRT

<213> Homo sapiens

<400> 1195

Met Ser Arg Tyr Leu Leu Pro Leu Ser Ala Leu Gly Thr Val Ala Gly
1 5 10 15

Ala Ala Val Leu Leu Lys Asp Tyr Val Thr Gly Gly Ala Cys Pro Ser 20 25 30

Lys Ala Thr Ile Pro Gly Lys Thr Val Ile Val Thr Gly Ala Asn Thr 35 40 45

Gly Ile Gly Lys Gln Thr Ala Leu Glu Leu Ala Arg Arg Gly Gly Asn 50 55 60

Ile Ile Leu Ala Cys Arg Asp Met Glu Lys Cys Glu Ala Ala Ala Lys 65 70 75 80

Asp Ile Arg Gly Glu Thr Leu Asn His His Val Asn Ala Arg His Leu
85 90 95

Asp Leu Ala Ser Leu Lys Ser Ile Arg Glu Phe Ala Ala Lys Ile Ile 100 105 110

Glu Glu Glu Glu Arg Val Asp Ile Leu Ile Asn Asn Ala Gly Val Met 115 120 125

Arg Cys Pro His Trp Thr Thr Glu Asp Gly Phe Glu Met Gln Phe Gly 130 135 140

Val Asn His Leu Gly His Phe Leu Leu Thr Asn Leu Leu Leu Asp Lys 145 150 155 160

Leu Lys Ala Ser Ala Pro Ser Arg Ile Ile Asn Leu Ser Ser Leu Ala 165 170 175

- His Val Ala Gly His Ile Asp Phe Asp Asp Leu Asn Trp Gln Thr Arg 180 185 190
- Lys Tyr Asn Thr Lys Ala Ala Tyr Cys Gln Ser Lys Leu Ala Ile Val 195 200 205
- Leu Phe Thr Lys Glu Leu Ser Arg Arg Leu Gln Gly Thr Gly Ala Leu 210 215 220
- Gly Ser Ala Ser Leu Leu Leu Tyr Ser Glu Pro Arg Ala Ala Phe Pro 225 230 235 240
- <210> 1196
- <211> 174
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (142)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (160)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (162)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1196
- Met Ala Val Ala Arg Leu Ala Ala Val Ala Ala Trp Val Pro Cys Arg 1 10 15
- Ser Trp Gly Trp Ala Ala Val Pro Phe Gly Pro His Arg Gly Leu Ser 20 25 30
- Val Leu Leu Ala Arg Ile Pro Gln Arg Ala Pro Arg Trp Leu Pro Ala
  40 45
- Cys Arg Gln Lys Thr Ser Leu Ser Phe Leu Asn Arg Pro Asp Leu Pro 50 55 60
- Asn Leu Ala Tyr Lys Lys Leu Lys Gly Lys Ser Pro Gly Ile Ile Phe 65 70 75 80
- Ile Pro Gly Tyr Leu Ser Tyr Met Asn Gly Thr Lys Ala Leu Ala Ile 85 90 95
- Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg Phe Asp Tyr 100 105 110

Ser Gly Val Gly Ser Ser Asp Gly Asn Ser Glu Glu Ser Thr Leu Gly
115 120 125

Lys Trp Arg Lys Asp Val Leu Ser Ile Ile Asp Asp Leu Xaa Asp Gly 130 135 140

Ala Xaa Asn Cys Thr Thr Arg Glu Gly Leu Ala Leu Ile Gly
165 170

<210> 1197

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1197

Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu His Ala Ala 1 5 10 15

Ile Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala Thr Ala 20 25 30

Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu Leu Lys
35 40 45

Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys Tyr Ser 50 55 60

Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu Ala Glu 65 70 75 80

His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro Ile Arg 85 90 95

Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr Ser Met 100 105 110

Gln Val Ala Asp Arg Val Leu Ser Thr Asp Val Asp Val Ile Leu Arg 115 120 125

Lys His Ser Asp His Arg Met Arg Glu Lys Ala Asp Ile Gln Leu Leu 130 135 140

Val Tyr Thr Ile Asp Asp Leu Ile Asp Lys Leu Ser Thr Ile Val Asn 145 150 155 160

<210> 1198

<211> 306

<212> PRT.

<213> Homo sapiens

Ser Trp Gly Trp Ala Ala Val Pro Phe Gly Pro His Arg Gly Leu Ser 20 25 30

Val Leu Leu Ala Arg Ile Pro Gln Arg Ala Pro Arg Trp Leu Pro Ala 35 40 45

Cys Arg Gln Lys Thr Ser Leu Ser Phe Leu Asn Arg Pro Asp Leu Pro 50 55 60

Asn Leu Ala Tyr Lys Lys Leu Lys Gly Lys Ser Pro Gly Ile Ile Phe 65 70 75 80

Ile Pro Gly Tyr Leu Ser Tyr Met Asn Gly Thr Lys Ala Leu Ala Ile 85 90 95

Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg Phe Asp Tyr 100 105 110

Ser Gly Val Gly Ser Ser Asp Gly Asn Ser Glu Glu Ser Thr Leu Gly 115 120 125

Lys Trp Arg Lys Asp Val Leu Ser Ile Ile Asp Asp Leu Ala Asp Gly 130 135 140

Pro Gln Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu His 145 150 155 160

Ala Ala Ile Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala 165 170 175

Thr Ala Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu 180 185 190

Leu Lys Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys
195 200 205

Tyr Ser Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu 210 215 220

Ala Glu His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro 225 230 235 240

Ile Arg Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr 245 250 255

Ser Met Gln Val Ala Asp Arg Val Leu Ser Thr Asp Val Asp Val Ile 260 265 270

Leu Arg Lys His Ser Asp His Arg Met Arg Glu Lys Ala Asp Ile Gln 275 280 285

Leu Leu Val Tyr Thr Ile Asp Asp Leu Ile Asp Lys Leu Ser Thr Ile 290 295 300

Val Asn 305

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<210> 1199
<211> 205
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1199
Met Gly Ser Trp Ala Leu Leu Trp Pro Pro Leu Leu Phe Thr Gly Leu
Leu Val Arg Pro Pro Gly Thr Met Ala Gln Ala Gln Tyr Cys Ser Val
                                 25
Asn Lys Asp Ile Phe Glu Val Xaa Glu Asn Thr Asn Val Thr Glu Pro
                          40
Leu Val Asp Ile His Val Pro Glu Gly Gln Glu Val Thr Leu Gly Ala
Leu Ser Thr Pro Phe Ala Phe Arg Ile Gln Gly Asn Gln Leu Phe Leu
                     70
Asn Val Thr Pro Asp Tyr Glu Glu Lys Ser Leu Leu Glu Ala Gln Leu
Leu Cys Gln Ser Gly Gly Thr Leu Val Thr Gln Leu Arg Val Phe Val
            100
Ser Val Leu Asp Val Asn Asp Asn Ala Pro Glu Phe Pro Phe Lys Thr
                            120
Lys Glu Ile Arg Val Glu Glu Asp Thr Lys Val Asn Ser Thr Val Ile
                        135
                                            140
Pro Glu Thr Gln Leu Gln Ala Glu Asp Arg Asp Lys Asp Asp Ile Leu
                    150
                                        155
Val Tyr Thr Leu Gln Glu Met Thr Ala Gly Ala Ser Gly Leu Leu
                165
Leu Val Ser Val Asn Arg Pro Pro Glu Leu Asp Arg Xaa Leu Thr Ser
                                185
Thr Ser Gly Glu His Asp Leu Leu Leu Ala Gly Ala Asp
                            200
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<210> 1200
<211> 124
<212> PRT
<213> Homo sapiens
<400> 1200
Pro Gln Gly Gln Leu Gly Ala Arg Pro Gln Pro His Ala Arg Pro Gln
Ala Arg Gly Gly Thr Asp Ala Arg Arg Ala Arg Thr Pro Arg Pro Cys
Leu Pro Arg Arg Cys Pro Glu Pro Pro Ala Ala Arg Ala Gly Gly
Ser Pro Thr Ala Val Arg Ser Ile Leu Thr Lys Glu Arg Arg Pro Glu
Gly Gly Tyr Lys Ala Val Trp Phe Gly Glu Asp Ile Gly Thr Glu Ala
Asp Val Val Leu Asn Ala Pro Thr Leu Asp Val Asp Gly Ala Ser
Asp Ser Gly Ser Gly Asp Glu Gly Glu Gly Ala Gly Arg Gly Gly Gly
Pro Tyr Asp Ala Pro Gly Gly Asp Asp Ser Tyr Ile
       115
<210> 1201
<211> 447
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (260)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1201
Phe Pro Ala Gly Ala Ala Ser Thr Val Leu Ala His Asn Lys Met Leu
                                     10
Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys Ser Gln
Ser Leu Ala Ala Ala Ala Val Ala Ala Gly Gly Arg Ser Asp
Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile Ser Gln
Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Asp Asp Tyr
```

Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp Gln Ala Leu Asp Pro

Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile Ser His Arg Arg Leu 120 Thr His Arg Met Lys Glu Ala Gly Val Asp His Arg Gln Trp Arg Gly 135 Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val Val Tyr Pro Ser Pro 150 155 Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser Val Lys Cys Glu Gly 185 His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly Ser Gln Asn Lys Lys 230 Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg Phe Asp Thr Ser Ile Leu Pro Ile Xaa Lys Asp Ser Leu Gly Trp Met Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu Trp Cys Tyr Cys Phe 315 Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe Glu Ile Ser Gly Asp 385 Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp Asp Glu Asp Asp Glu

410

Asp Asp Ile\_Met Asn Asp Glu Asp Glu Ile Glu Asp Asp Asp Glu Asp 420 425 430

<210> 1202

<211> 551

<212> PRT

<213> Homo sapiens

<400> 1202

Met Gly Ser Trp Ala Leu Leu Trp Pro Pro Leu Leu Phe Thr Gly Leu 1 5 10 15

Leu Val Arg Pro Pro Gly Thr Met Ala Gln Ala Gln Tyr Cys Ser Val 20 25 30

Asn Lys Asp Ile Phe Glu Val Glu Glu Asn Thr Asn Val Thr Glu Pro  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Leu Val Asp Ile His Val Pro Glu Gly Gln Glu Val Thr Leu Gly Ala
50 55 60

Leu Ser Thr Pro Phe Ala Phe Arg Ile Gln Gly Asn Gln Leu Phe Leu 65 70 75 80

Asn Val Thr Pro Asp Tyr Glu Glu Lys Ser Leu Leu Glu Ala Gln Leu 85 90 95

Leu Cys Gln Ser Gly Gly Thr Leu Val Thr Gln Leu Arg Val Phe Val 100 105 110

Ser Val Leu Asp Val Asn Asp Asn Ala Pro Glu Phe Pro Phe Lys Thr 115 120 125

Lys Glu Ile Arg Val Glu Glu Asp Thr Lys Val Asn Ser Thr Val Ile 130 135 140

Pro Glu Thr Gln Leu Gln Ala Glu Asp Arg Asp Lys Asp Asp Ile Leu 145 150 155 160

Phe Tyr Thr Leu Gln Glu Met Thr Ala Gly Ala Ser Asp Tyr Phe Ser 165 170 175

Leu Val Ser Val Asn Arg Pro Ala Leu Arg Leu Asp Arg Pro Leu Asp 180 185 190

Phe Tyr Glu Arg Pro Asn Met Thr Phe Trp Leu Leu Val Arg Asp Thr 195 200 205

Pro Gly Glu Asn Val Glu Pro Ser His Thr Ala Thr Ala Thr Leu Val 210 215 220

Leu Asn Val Val Pro Ala Asp Leu Arg Pro Pro Trp Phe Leu Pro Cys 225 230 235 240

Thr Phe Ser Asp Gly Tyr Val Cys Ile Gln Ala Gln Tyr His Gly Ala 245 250 Val Pro Thr Gly His Ile Leu Pro Ser Pro Leu Val Leu Arg Pro Gly Pro Ile Tyr Ala Glu Asp Gly Asp Arg Gly Ile Asn Gln Pro Ile Ile Tyr Ser Ile Phe Arg Gly Asn Val Asn Gly Thr Phe Ile Ile His Pro Asp Ser Gly Asn Leu Thr Val Ala Arg Ser Val Pro Ser Pro Met Thr 315 Phe Leu Leu Val Lys Gly Gln Gln Ala Asp Leu Ala Arg Tyr Ser Val Thr Gln Val Thr Val Glu Ala Val Ala Ala Gly Ser Pro Pro 345 Arg Phe Pro Gln Ser Leu Tyr Arg Gly Thr Val Ala Arg Gly Ala Gly Ala Gly Val Val Lys Asp Ala Ala Pro Ser Gln Pro Leu Arg Ile Gln Ala Gln Asp Pro Glu Phe Ser Asp Leu Asn Ser Ala Ile Thr 390 395 Tyr Arg Ile Thr Asn His Ser His Phe Arg Met Glu Gly Glu Val Val 405 410 Leu Thr Thr Thr Leu Ala Gln Ala Gly Ala Phe Tyr Ala Glu Val 425 420 Ala Ala Pro Arg Arg Thr Ser Ala Ser Arg Trp Trp Ile Trp Arg Pro 440 Trp Ala Gly Cys Trp Val Arg Cys Cys Cys Trp Leu Ser Leu Ala Ser 455 Pro Ser Leu Ser Thr Ser Thr Met Ala Pro Gly Ser Ser Ala Ala Leu 470 475 Ala Lys Leu Arg Ser Pro Ser Pro Lys Ala Leu Thr Thr Arg Arg Ser 490 485 Ser Leu Thr Thr Arg Pro Thr Gly Arg Pro Ser Pro Ala Pro Arg Thr 500 505 Thr Pro Ser Pro Arg Arg His Arg Cys Pro Gln Ser Pro His Pro Pro 520 Ala Leu Pro Pro Gln Ala Val Pro Leu Ser Pro Pro Gln Arg Pro Glu 535

Leu Ala Glu Ala Pro Arg Arg

545

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<210> 1203
<211> 71
<212> PRT
<213> Homo sapiens
<220>
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<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1203
Phe Cys Lys Gly Gln Ala Ala Leu Ala Leu Ala Ala Cys Gly Val Leu
Leu Xaa Ser Gly Gly Pro Ala Ala Ala Trp Glu Ala Asp Pro Ala Gly
Arg Cys Gly Arg Val Pro Thr Ala Arg Gly Arg Ser Trp Arg Lys Pro
Leu Cys Gly Ala Phe Gln Pro Gly Xaa Ser Trp Pro Glu Ala Pro Arg
Arg Cys Arg Thr Ser Pro Cys
65
<210> 1204
<211> 52
<212> PRT
<213> Homo sapiens
<220>
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<222> (3)
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<222> (4)
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<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids.
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Ser Ser Pro Asn Ser Gln Pro Pro Phe Phe Phe Phe Leu His Ala Ser 100 105 110

Lys Val Gln Gly Pro Gln Met Tyr Arg Ser Leu Met Tyr His Pro Ala 115 120 125

Arg Glu Pro Ala Asp Tyr Gln Ala Lys Lys 130 135

<210> 1206 <211> 193 <212> PRT <213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1206
Met Ala Gly Pro Thr Cys Arg Ser Leu Leu Leu Lys Cys Leu Ala
Glu Gly Arg Cys Leu Val Cys Pro Ser Pro Ser Val Val His Cys Leu
             20
                                 25
Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp Leu Glu Lys Leu
                             40
Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu Ser Gly Ile Thr
     50
Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg Ala Glu Val Gly
Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Ser Ser Trp Ser Ser
Ser Arg Ala Gly Arg Cys Trp Arg Gly Pro Gly Arg Pro Ser Ser Thr
                                105
Ser Arg Pro Ser Cys Ser Ser Trp Ser Ser Val Ala Ser Cys Pro Gly
                          120
        115
Ser Thr His Arg Pro His Leu Arg Ala Ser Ser Xaa Ala Xaa Leu Leu
                        135
Ala Phe Xaa Phe Leu Pro Tyr Ile Thr Phe Xaa His Gln Ala Thr Ser
                                        155
Thr Xaa Ser Gly His Leu Ile Pro Gly Gly His Leu Ala Gly Pro Leu
                                     170
Ala Gly Pro Ser Leu Ala Arg Pro Phe Gly Ala Trp Gly Leu Gly Thr
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Phe

<210> 120	1
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<211> 349

<212> PRT

<213> Homo sapiens

180

<400> 1207

Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp 1 5 10 15

185

Pro Arg Val Arg Asp Asp Thr Gly Pro Pro Met Asp Lys Ser Asp Leu 20 25 30

Gly Gln Lys Arg Thr Ser Gly Ala Val Cys His Gln Asp Pro Arg Thr 35 40 45

Cys Glu Glu Pro Ala Ser Ser Gly Ala His Ile Trp Pro Asp Asp Ile 50 55 60

Thr Lys Trp Pro Ile Cys Thr Glu Gln Ala Arg Ser Asn His Thr Gly 65 70 75 80

Phe Leu His Val Asp Cys Glu Ile Lys Gly Arg Pro Cys Cys Ile Gly 85 90 95

Thr Lys Gly Ser Cys Glu Ile Thr Thr Arg Glu Tyr Cys Glu Phe Met 100 105 110

His Gly Tyr Phe His Glu Glu Ala Thr Leu Cys Ser Gln Val His Cys 115 120 125

Leu Asp Lys Val Cys Gly Leu Leu Pro Phe Leu Asn Pro Glu Val Pro
130 135 140

Asp Gln Phe Tyr Arg Leu Trp Leu Ser Leu Phe Leu His Ala Gly Val 145 150 155 160

Val His Cys Leu Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp 165 170 175

Leu Glu Lys Leu Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu 180 185 190

Ser Gly Ile Thr Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg 195 200 205

Ala Glu Val Gly Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Leu 210 215 220

Phe Val Glu Leu Phe Gln Ser Trp Pro Leu Leu Glu Arg Pro Trp Lys 225 230 235 240

Ala Phe Leu Asn Leu Ser Ala Ile Val Leu Phe Leu Phe Ile Cys Gly 245 250 255

Leu Leu Pro Trp Ile Asp Asn Ile Ala His Ile Phe Gly Phe Leu Ser 260 265 270

Gly Leu Leu Ala Phe Ala Phe Leu Pro Tyr Ile Thr Phe Gly Thr 275 280 . 285

Ser Asp Lys Tyr Arg Lys Arg Ala Leu Ile Leu Val Ser Leu Leu Ala 290 295 300

Phe Ala Gly Leu Phe Ala Ala Leu Val Leu Trp Leu Tyr Ile Tyr Pro 305 310 315 320

Ile Asn Trp Pro Trp Ile Glu His Leu Thr Cys Phe Pro Phe Thr Ser 325 330 335

Arg Phe Cys Glu Lys Tyr Glu Leu Asp Gln Val Leu His 340 345

<210> 1208

<211> 217

<212> PRT

<213> Homo sapiens

<400> 1208

Met Ala Gly Pro Thr Cys Arg Ser Leu Leu Leu Leu Lys Cys Leu Ala 1 5 10 15

Glu Gly Arg Cys Leu Val Cys Pro Ser Pro Ser Val Val His Cys Leu 20 25 30

Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp Leu Glu Lys Leu 35 40 45

Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu Ser Gly Ile Thr 50 55 60

Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg Ala Glu Val Gly 65 70 75 80

Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Leu Phe Val Glu Leu 85 90 95

Phe Gln Ser Trp Pro Leu Leu Glu Arg Pro Trp Lys Ala Phe Leu Asn 100 105 110

Leu Ser Ala Ile Val Leu Phe Leu Phe Ile Cys Gly Leu Leu Pro Trp
115 120 125

Ile Asp Asn Ile Ala His Ile Phe Gly Phe Leu Ser Gly Leu Leu Leu 130 135 140

Ala Phe Ala Phe Leu Pro Tyr Ile Thr Phe Gly Thr Ser Asp Lys Tyr 145 150 155 160

Arg Lys Arg Ala Leu Ile Leu Val Ser Leu Leu Ala Phe Ala Gly Leu 165 170 175

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Phe Ala Ala Leu Val Leu Trp Leu Tyr Ile Tyr Pro Ile Asn Trp Pro
             180
                                 185
 Trp Ile Glu His Leu Thr Cys Phe Pro Phe Thr Ser Arg Phe Cys Glu
 Lys Tyr Glu Leu Asp Gln Val Leu His
 <210> 1209
 <211> 207
 <212> PRT
 <213> Homo sapiens
 <220>
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 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids
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 <222> (71)
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 <222> (72)
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 <222> (73)
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 <222> (75)
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 <222> (81)
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 <222>. (89)
<223> Xaa equals any of the naturally occurring L-amino acids
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 <223> Xaa equals any of the naturally occurring L-amino acids
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. <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids
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<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (.141)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1209
Met Tyr Tyr Ile Ala His Leu Leu Lys Gly Ala Leu Leu Phe Ile Thr
Ile Ala Leu Ile Gly Ser Gly Trp Ala Phe Ile Lys Tyr Val Leu Ser
Asp Lys Glu Lys Lys Val Phe Gly Ile Val Ile Pro Met Gln Val Leu
Ala Thr Trp Pro Thr Ser Ser Ser Pro Ala Arg Lys Ala Pro Ala
Thr Thr Cys Cys Gly Xaa Xaa Xaa Pro Xaa Gly Pro His Leu Leu
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Xaa Cys His Pro Val Pro Val Val Xaa Xaa His Pro Ala Ser Xaa Gly 85 90 95

75

Xaa Val Xaa Pro Gln Asp Gly Lys Xaa Ala Ser Glu Pro Gly Gln Ser 100 105 110

Leu Lys Leu Val Pro Gly Ile Tyr Tyr Val Met Gly His Leu Xaa Arg 115 120 125

Leu Leu Ser Pro Gly Ser Ile Gly His Pro Ala Cys Xaa Val Ala Trp 130 135 140

Cys Pro Phe Ser Ser Gly Lys Trp Ala Cys Thr Gln Ala Ser Trp Val 145 150 155 160

Gly Arg Ala Ser Thr Leu Gly Pro Xaa Phe Gly Ala Tyr Arg Ala Tyr 165 170 175

Lys Xaa Ser Gly Pro Gln Gly Asn Lys Pro Xaa Thr Leu Asn Leu Pro 180 185 190

Lys Xaa Gly Gln Gly Gly Met Val Lys Met Glu Gln Val Met Asp 195 200 205

<210> 1210

<211> 553

<212> PRT

<213> Homo sapiens

<400> 1210

Val Asp Pro Arg Val Arg Val Ala Pro Glu Met Ala Val Ser Glu Arg

1 5 10 15

Arg Gly Leu Gly Arg Gly Ser Pro Ala Glu Trp Gly Gln Arg Leu Leu 20 25 30

Leu Val Leu Leu Gly Gly Cys Ser Gly Arg Ile His Arg Leu Ala 35 40 45

Leu Thr Gly Glu Lys Arg Ala Asp Ile Gln Leu Asn Ser Phe Gly Phe 50 55 60

Tyr Thr Asn Gly Ser Leu Glu Val Glu Leu Ser Val Leu Arg Leu Gly 65 70 75 80

Leu Arg Glu Ala Glu Glu Lys Ser Leu Leu Val Gly Phe Ser Leu Ser 85 90 95

Arg Val Arg Ser Gly Arg Val Arg Ser Tyr Ser Thr Arg Asp Phe Gln 100 105 110

Asp Cys Pro Leu Gln Lys Asn Ser Ser Ser Phe Leu Val Leu Phe Leu 115 120 125

Ile Asn Thr Lys Asp Leu Gln Val Gln Val Arg Lys Tyr Gly Glu Gln 130 135 140

Lys Thr Leu Phe Ile Phe Pro Gly Leu Leu Pro Glu Ala Pro Ser Lys 150 155 Pro Gly Leu Pro Lys Pro Gln Ala Thr Val Pro Arg Lys Val Asp Gly 170 Gly Gly Thr Ser Ala Ala Ser Lys Pro Lys Ser Thr Pro Ala Val Ile 185 Gln Gly Pro Ser Gly Lys Asp Lys Asp Leu Val Leu Gly Leu Ser His 200 Leu Asn Asn Ser Tyr Asn Phe Ser Phe His Val Val Ile Gly Ser Gln Ala Glu Glu Gly Gln Tyr Ser Leu Asn Phe His Asn Cys Asn Asn Ser Val Pro Gly Lys Glu His Pro Phe Asp Ile Thr Val Met Ile Arg Glu Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala Glu Met Pro Leu Phe Lys 265 Leu Tyr Met Val Met Ser Ala Cys Phe Leu Ala Ala Gly Ile Phe Trp Val Ser Ile Leu Cys Arg Asn Thr Tyr Ser Val Phe Lys Ile His Trp 295 Leu Met Ala Ala Leu Ala Phe Thr Lys Ser Ile Ser Leu Leu Phe His 305 310 315 Ser Ile Asn Tyr Tyr Phe Ile Asn Ser Gln Gly His Pro Ile Glu Gly 330 Leu Ala Val Met Tyr Tyr Ile Ala His Leu Leu Lys Gly Ala Leu Leu Phe Ile Thr Ile Ala Leu Ile Gly Ser Gly Trp Ala Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe Gly Ile Val Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile Ile Glu Ser Arg Glu Glu 390 395 Gly Ala Ser Asp Tyr Val Leu Trp Lys Glu Ile Leu Phe Leu Val Asp Leu Ile Cys Cys Gly Ala Ile Leu Phe Pro Val Val Trp Ser Ile Arg 425 His Leu Gln Asp Ala Ser Gly Thr Asp Gly Lys Val Ala Val Asn Leu 435 Ala Lys Leu Lys Leu Phe Arg His Tyr Tyr Val Met Val Ile Cys Tyr

460

455

Val Tyr Phe Thr Arg Ile Ile Ala Ile Leu Leu Gln Val Ala Val Pro 465 470 480

Phe Gln Trp Gln Trp Leu Tyr Gln Leu Leu Val Glu Gly Ser Thr Leu 485 490 495

Ala Phe Phe Val Leu Thr Gly Tyr Lys Phe Gln Pro Thr Gly Asn Asn 500 505 510

Pro Tyr Leu Gln Leu Pro Gln Glu Asp Glu Glu Asp Val Gln Met Glu 515 520 525

Gln Val Met Thr Asp Ser Gly Phe Arg Glu Gly Leu Ser Lys Val Asn 530 535 540

Lys Thr Ala Ser Gly Arg Glu Leu Leu 545 550

<210> 1211

<211> 543

<212> PRT

<213> Homo sapiens

<400> 1211

Met Ala Val Ser Glu Arg Arg Gly Leu Gly Arg Gly Ser Pro Ala Glu
1 5 10 15

Trp Gly Gln Arg Leu Leu Leu Val Leu Leu Gly Gly Cys Ser Gly 20 25 30

Arg Ile His Arg Leu Ala Leu Thr Gly Glu Lys Arg Ala Asp Ile Gln
35 40 45

Leu Asn Ser Phe Gly Phe Tyr Thr Asn Gly Ser Leu Glu Val Glu Leu 50 55 60

Ser Val Leu Arg Leu Gly Leu Arg Glu Ala Glu Glu Lys Ser Leu Leu 65 70 75 80

Val Gly Phe Ser Leu Ser Arg Val Arg Ser Gly Arg Val Arg Ser Tyr 85 90 95

Ser Thr Arg Asp Phe Gln Asp Cys Pro Leu Gln Lys Asn Ser Ser Ser 100 105 110

Phe Leu Val Leu Phe Leu Ile Asn Thr Lys Asp Leu Gln Val Gln Val 115 120 125

Arg Lys Tyr Gly Glu Gln Lys Thr Leu Phe Ile Phe Pro Gly Leu Leu 130 135 140

Pro Glu Ala Pro Ser Lys Pro Gly Leu Pro Lys Pro Gln Ala Thr Val 145 150 155 160

Pro Arg Lys Val Asp Gly Gly Gly Thr Ser Ala Ala Ser Lys Pro Lys 165 170 175

- Ser Thr Pro Ala Val Ile Gln Gly Pro Ser Gly Lys Asp Lys Asp Leu 180 185 190
- Val Leu Gly Leu Ser His Leu Asn Asn Ser Tyr Asn Phe Ser Phe His 195 200 205
- Val Val Ile Gly Ser Gln Ala Glu Glu Gly Gln Tyr Ser Leu Asn Phe 210 215 220
- His Asn Cys Asn Asn Ser Val Pro Gly Lys Glu His Pro Phe Asp Ile 225 230 235 240
- Thr Val Met Ile Arg Glu Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala 245 250 255
- Glu Met Pro Leu Phe Lys Leu Tyr Met Val Met Ser Ala Cys Phe Leu 260 265 270
- Ala Ala Gly Ile Phe Trp Val Ser Ile Leu Cys Arg Asn Thr Tyr Ser 275 280 285
- Val Phe Lys Ile His Trp Leu Met Ala Ala Leu Ala Phe Thr Lys Ser 290 295 300
- Ile Ser Leu Leu Phe His Ser Ile Asn Tyr Tyr Phe Ile Asn Ser Gln 305 310 315 320
- Gly His Pro Ile Glu Gly Leu Ala Val Met Tyr Tyr Ile Ala His Leu 325 330 335
- Leu Lys Gly Ala Leu Leu Phe Ile Thr Ile Ala Leu Ile Gly Ser Gly 340 345 350
- Trp Ala Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe 355 360 365
- Gly Ile Val Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile 370 375 380
- Ile Glu Ser Arg Glu Glu Gly Ala Ser Asp Tyr Val Leu Trp Lys Glu 385 390 395 400
- Ile Leu Phe Leu Val Asp Leu Ile Cys Cys Gly Ala Ile Leu Phe Pro 405 410 415
- Val Val Trp Ser Ile Arg His Leu Gln Asp Ala Ser Gly Thr Asp Gly 420 425 430
- Lys Val Ala Val Asn Leu Ala Lys Leu Lys Leu Phe Arg His Tyr Tyr 435 440 445
- Val Met Val Ile Cys Tyr Val Tyr Phe Thr Arg Ile Ile Ala Ile Leu 450 460
- Leu Gln Val Ala Val Pro Phe Gln Trp Gln Trp Leu Tyr Gln Leu Leu 465 470 475 480
- Val Glu Gly Ser Thr Leu Ala Phe Phe Val Leu Thr Gly Tyr Lys Phe
  485 490 495

- Gln Pro Thr Gly Asn Asn Pro Tyr Leu Gln Leu Pro Gln Glu Asp Glu
  500 505 510
- Glu Asp Val Gln Met Glu Gln Val Met Thr Asp Ser Gly Phe Arg Glu 515 520 525
- Gly Leu Ser Lys Val Asn Lys Thr Ala Ser Gly Arg Glu Leu Leu 530 535 540
- <210> 1212
- <211> 204
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (162)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (204)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1212
- Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr

  1 10 15
- Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu 20 25 30
- Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser 35 40 45
- Cys Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp 50 55 60
- Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys 65 70 75 80
- Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile 85 90 95
- Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys 100 105 110
- Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala 115 120 125
- Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met 130 135 140
- Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His 145 150 155 160
- Val Xaa Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly
  165 170 175

Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Phe Ile Ala 180 185 190

Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Xaa 195 200

<210> 1213

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1213

Glu Leu His Lys Pro Phe Glu Tyr Leu Ile Gln Asp Asn Gly Xaa Val 1 5 10 15.

Leu Leu Gln Asn Asn Val Tyr Val Cys Met Tyr Ile Trp Phe Ser 20 25 30

Ile Tyr Ile Lys Gly Leu Asp Glu Pro Pro Lys Asn Trp Leu Arg Thr 35 40 45

Leu Gln Trp Asn Leu Gln Ala Ser Ile Cys Lys Ser Ala Arg His Lys
50 55 60

Thr Thr Cys Ser Leu Arg Ala Lys Arg Met Arg Phe Ser Gln Ile Leu 65 70 75 80

Ile Ile Leu Asn Val

<210> 1214

<211> 289

<212> PRT

<213> Homo sapiens

<400> 1214

Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr 1 5 10 15

Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu 20 25 30

Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser

Cys. Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp
50 55 60

Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys 65 70 75 80 Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile 85 90 95

Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys 100 . 105 . 110

Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala 115 120 125

Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met 130 135 140

Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His 145 150 155 160

Val Ile Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly
165 170 175

Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Ser Ile Ala 180 185 190

Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Val Tyr Trp Val Leu 195 200 205

Gln Asp Pro Val Tyr Glu Asp Leu Leu Ser Glu Asn Arg Lys Met Ile 210 215 220

Thr Asn Glu Lys Ile Asp Ala Tyr Asn Glu Ala Ala Val Ser Ile Leu 225 230 235 240

Asn Ser Ser Thr Arg Asn Ser Lys Ser Asn Val Lys Met Phe Ser Val
245 250 255

Ser Lys Leu Ile Ala Gln Glu Thr Ile Met Glu Ser Leu Asp Gly Leu 260 265 270

His Leu Pro Glu Ser Ser Arg Glu Thr Val Arg Asn Phe Tyr Ile Cys 275 280 285

Gln

<210> 1215

<211> 215

<212> PRT

<213> Homo sapiens

<400> 1215

Cys Glu Val Arg Pro Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe 1 5 10 15

His Asp Asn Asn Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp 20 25 30

Pro Val Cys Lys His Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr 35 40 45

Ser Arg Gly Val Leu Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val

55

Phe Lys Val Asn His Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala 65 70 75 80

Ser Leu Leu Asn Val' Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser 85 90 95

Trp Gln Val Gly Ile Gln Gln Asp Val Thr His Thr Asn Gly Cys Val
100 105 110

Ala Leu Gly Ile Lys Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met 115 120 125

Glu Gln Asp Ala Arg Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro 130 135 140

Ser Asp Gly Ser Ser Pro Asp Arg Pro Glu Lys Arg Ala Thr Ser Tyr 145 150 155 160

Gln Met Pro Leu Val Gln Cys Ala Ser Ser Ser Pro Arg Ala Glu Asp 165 170 175

Leu Ala Glu Asp Ser Gly Ser Ser Leu Tyr Gly Arg Ala Pro Gly Arg 180 185 190

His Thr Trp Ser Leu Leu Leu Ala Ala Leu Ala Cys Leu Val Pro Leu 195 200 205

Leu His Trp Asn Ile Arg Arg 210 215

<210> 1216

<211> 466

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (458)

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<220>

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<220>

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<220>

<221> SITE

<222> (463)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1216

Met Ser Trp Pro Arg Arg Leu Leu Leu Arg Tyr Leu Phe Pro Ala Leu
1 5 . 10 15

Leu Leu His Gly Leu Gly Glu Gly Ser Ala Leu Leu His Pro Asp Ser 20 25 30

Arg Ser His Pro Arg Ser Leu Glu Lys Ser Ala Trp Arg Ala Phe Lys 35 40 45

Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg 50 55 60

Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr 65 70 75 80

Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg 85 90 95

Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser 100 105 110

Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile 115 120 125

Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp 130 135 140

Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala 145 150 155 160

Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala 165 170 175

Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu 180 185 190

Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu 195 200 205

Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp 210 215 220

His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr 225 230 235 240

Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn 245 250 255

Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Xaa Ile Ile Tyr Arg 260 265 270

Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr 275 280 285

Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro

Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn 305 310 315 320

Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His 325 330 335

Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu 340 345 350

Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His 355 360 365

Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val 370 375 380

Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile 385 390 395 400

Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys 405 410 415

Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg
420 425 430

Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser 435 440 445

Pro Asp Arg Pro Arg Arg Lys Lys Gly Xaa Lys Xaa Xaa Lys Xaa Ala 450 455 460

Pro Pro 465

<210> 1217

<211> 514

<212> PRT

<213> Homo sapiens

<400> 1217

Met Ser Trp Pro Arg Arg Leu Leu Leu Arg Tyr Leu Phe Pro Ala Leu 1 5 10 15

Leu Leu His Gly Leu Gly Glu Gly Ser Ala Leu Leu His Pro Asp Ser 20 25 30

Arg Ser His Pro Arg Ser Leu Glu Lys Ser Ala Trp Arg Ala Phe Lys
35 40 45

Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg
50 55 60

Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr 65 70 75 80

Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg 85 90 95

- Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser 105 Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala 150 145 Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala 165 Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu 190 180 185 Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu 200 Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp 210 21.5 His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr 230 235 Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn 250 245 Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Arg Ile Ile Tyr Arg Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr 280 Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His
- Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu 340 345 350
- Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His 355 360 365
- Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile 385 390 395 400
- Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys \$405\$

Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg 420 425 430

Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser 435 440 445

Pro Asp Arg Pro Glu Lys Arg Ala Thr Ser Tyr Gln Met Pro Leu Val 450 455 460

Gln Cys Ala Ser Ser Ser Pro Arg Ala Glu Asp Leu Ala Glu Asp Ser 465 470 475 480

Gly Ser Ser Leu Tyr Ġly Arg Ala Pro Gly Arg His Thr Trp Ser Leu 485 490 495

Leu Leu Ala Ala Leu Ala Cys Leu Val Pro Leu Leu His Trp Asn Ile 500 505 510

Arg Arg

<210> 1218

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1218

Met Asn Asn Ser Ile Ala Ala Gln Ala Ser Lys Phe Val Ile Leu Tyr  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Phe Ile Leu Ser Phe Pro Lys Gln Cys Ile Cys His Ile Leu Ser 20 25 30

Glu Met Val Trp 35

<210> 1219

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1219

Gln Ala Ser Lys Ser Leu Leu Pro His Gly Ile His Thr Ile Leu Asn 1 10 15

Val Ile Tyr Ile Asn Leu Thr Ser Val Gly Ile Met Thr Met Cys Met 20 25 30

Lys Cys Asn Leu Pro Lys Lys Phe Leu Arg Asp Ser Val Ser Lys Val 35 40 45

Leu Ile Asp Ser Trp Ser His Arg Tyr Leu Leu Thr Ser Met Tyr Gln
50 55 60

Tyr Ser Arg Leu Ser Glu Glu Lys Gln Val Ile Ser Ile Tyr Cys Ile

Ile Tyr Thr Asn Asn Leu Gly Thr Leu Lys Asp Ser Tyr Gln Leu Gly 85 90 95

70

Trp Trp Glu Pro Ser 100

<210> 1220

<211> 178

65

<212> PRT

<213> Homo sapiens

<400> 1220

His Leu Leu Glu Val Thr Pro Cys Arg Leu Pro Val Pro Glu Phe Pro 1 5 10 15

Gly Arg Thr Pro Arg Gly Ser Arg Thr Pro Asp Met Arg Arg Leu Leu 20 25 30

Leu Val Thr Ser Leu Val Val Val Leu Leu Trp Glu Ala Gly Ala Val 35 40 45

Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val Lys His Trp Pro Ser 50 55 60

Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg Val Val Glu Pro Pro 65 70 75 80

Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro Val Gln Lys Pro Lys 85 90 95

Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln Gly Arg Gly Pro Ile 100 105 110

Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg

Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro 130 135 140

Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn 145 150 155 160

His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His 165 170 175

Pro Gln

<210> 1221

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1221

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Met Asn Asn Ser Ile Ala Ala Gln Ala Ser Lys Phe Val Ile Leu Tyr
1 5 10 15
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Leu Phe Ile Leu Ser Phe Pro Lys Gln Cys Ile Cys His Ile Leu Val 20 25 30

Arg Trp Ser Gly Lys Ser His Phe 35 40

<210> 1222

<211> 39

<212> PRT

<213> Homo sapiens

<400> 1222

Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe 1 5 10 15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser 20 25 30

Cys Arg Glu Pro Thr Ser Ser 35

<210> 1223

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1223

Gly Thr Leu Gln Arg Gly Phe Leu Leu Cys Ser Leu Val Pro Gly Trp 1 10 15

Gly Trp Gly Thr Pro Ala Ala Leu Thr Asp Gly Ser Pro Phe Ser Leu 20 25 30

Ser Gly His Pro Ser Pro Thr Leu Thr Cys Thr Lys Phe Ser Pro Gln 35 40 45

Leu Leu Cys Val Ala Pro 50

<210> 1224

<211> 39

<212> PRT

<213> Homo sapiens

<400> 1224

Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe 1 5 10 15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser 20 25 30

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1225
Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser
10

Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser 20 25 30

Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser 35 40 45

Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu 50 55 60

Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val 65 70 75 80

Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro 85 90 95

Gly Pro Ser Lys Gly Glu Arg Tyr Val Thr Phe Gly Val Val Gly Gly 100 105 110

Ala Gly Ser Asn Leu Ala Val His Ser Ala Arg Pro Leu Ile Gly Asn 115 120 125

Leu Leu Ser Val Gly Pro Thr Ser Thr Leu Thr Pro Thr Arg Gly Leu 130 135 140

Ser Trp Gln Ser Ile Ala Ala Ser Pro Ser Ser Thr Gly His Ala Lys 145 150 155 160

Phe Arg Glu Thr Xaa Lys Asn 165

<210> 1226

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1226

Gln Leu Arg Xaa Leu Arg Asp Ser Ile Pro Glu Gln Phe Cys Asn Arg 1 5 10 15

Leu Lys Ala Pro Gly Asn Arg Thr His Ile Ser Gly Cys Leu Gly Gly
20 25 30

Gly Gln Asp Leu Gly Gly Pro Glu Arg Val Phe Trp Asp Asp Gly Ile 35 40 45

Phe Cys Ile Leu Thr Val Trp Cys Leu His Arg Xaa Gln His Leu Ser 50 55 60

Glu Ile Asn Gly Leu Ser Leu 65 70

<210> 1227

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1227

Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser 1 5 10 15

Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser 20 25 30

Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser 35 40 45

Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu 50 55 60

Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val 65 70 75 80

Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro 85 90 95

Gly Pro Ser Lys Gly Glu Arg Tyr Val Tyr Phe Arg Gly Gly Arg Gly
100 105 110

Cys Gly

<210> 1228

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1228

Met Ala Ala Leu Xaa Thr Val Leu Phe Thr Gly Val Arg Arg Leu His 1 5 10 15

Cys Ser Ala Ala Ala Trp Ala Gly Gly Gln Trp Arg Leu Gln Gln Gly 20 25 30

Leu Ala Ala Asn Pro Ser Gly Tyr Gly Pro Leu Thr Glu Leu Pro Asp 35 40 45

Trp Ser Tyr Ala Asp Gly Arg Pro Ala Pro Pro Met Lys Gly Gln Leu 50 55 60

Arg Arg Lys Ala Glu Arg Glu Thr Phe Ala Arg Arg Val Val Leu Leu 65 70 75 80

Ser Gln Glu Met Asp Ala Gly Leu Gln Ala Trp Gln Leu Arg Gln Gln 85 90 95

Lys Leu Gln Glu Glu Gln Arg Lys Gln Glu Asn Ala Leu Lys Pro Lys 100 105 110

Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln 115 120

<210> 1229

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1229

Met Ala Ala Leu Val Thr Val Leu Phe Thr Gly Val Arg Arg Leu His 1 5 10 15

Cys Ser Ala Ala Ala Trp Ala Gly Gly Gln Trp Arg Leu Gln Gly 20 25 30

Leu Ala Asn Pro Ser Gly Tyr Gly Pro Leu Thr Glu Leu Pro Asp
35. 40

Trp Ser Tyr Ala Asp Gly Arg Pro Ala Pro Pro Met Lys Gly Gln Leu 50 55 60

Arg Arg Lys Ala Glu Arg Glu Thr Phe Ala Arg Arg Val Val Leu Leu 65 70 75 80

Ser Gln Glu Met Asp Ala Gly Leu Gln Ala Trp Gln Leu Arg Gln Gln 85 90 95

Lys Leu Gln Glu Glu Gln Arg Lys Gln Glu Asn Ala Leu Lys Pro Lys 100 105 110

Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln

<210> 1230

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1230

Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
1 5 10 15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln 20 25 30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe 35 40 45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp 50 55 60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp 65 70 75 80

Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala 85 90 95

Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys 100 105 110

Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly Thr Arg Ser Cys 115 120 125

<210> 1231

<211> 492

<212> PRT

<213> Homo sapiens

<400> 1231

Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu 1 5 10 15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln 20 25 30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp 50 55 60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp
65 70 75 80

- Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala 85 90 95
- Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys 100 105 110
- Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu 115 120 125
- Leu Thr Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala 130 135 140
- Leu Arg Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly 145 150 160
- Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro 165 170 175
- His Leu Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ala Val 180 185 190
- Ala Gly Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp 195 200 205
- Phe Glu Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe 210 215 220
- Arg Gln Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg 225 230 235 240
- Trp Glu Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr 245 250 255
- Gln Leu Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met 260 265 270
- Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro 275 280 285
- Val Lys Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr 290 295 300
- Gly Leu Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu 305 310 315 320
- His Cys Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr 325 330 335
- Gly Cys Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys 340 345 350
- Thr Glu Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe 355 360 365
- Pro Asp Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp 370 380
- Thr Trp Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp 385 390 395 400

- Gly Gly Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn 405 410 415
- Leu Asp Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser 420 425 430
- Val Ile Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg
  435 440 445
- Ala Ser His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu 450 455 460
- Glu Ala Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln 465 470 475 480
- Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu 485 490
- <210> 1232
- <211> 492
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (89)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1232
- Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu 1 5 10 15
- Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln 20 25 30
- Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe 35 40 45
- Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp 50 55 60
- Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp 65 70 75 80
- Val Trp Ala Phe Ala Asn Asn Ser Xaa Phe Val Ala Glu Leu Ala Ala 85 90 95
- Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys
- Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu 115 120 125
- Leu Thr Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala
- Leu Arg Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly

150

Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro 165 170 175

155

His Leu Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ala Val 180 185 190

Ala Gly Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp 195 200 205

Phe Glu Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe 210 215 220

Arg Gln Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg 225 230 235 240

Trp Glu Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr 245 250 255

Gln Leu Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met 260 265 270

Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro 275 280 285

Val Lys Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr 290 295 300

Gly Leu Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu 305 310 315 320

His Cys Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr 325 330 335

Gly Cys Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys 340 345 350

Thr Glu Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe 355 360 365

Pro Asp Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp 370 380

Thr Trp Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp 385 390 395 400

Gly Gly Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn 410 415

Leu Asp Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser 420 425 430

Val Ile Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg 435 440 445

Ala Ser His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu
450 455 460

Glu Ala Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln

Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu 485 490

<210> 1233

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1233

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TŲ

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg

1 5 10 15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly 20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala 35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly 50 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg 65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile 85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala 100 105 110

Phe Ala Met Ala His Arg Ser Leu Tyr Leu Phe Leu Arg Lys Cys Phe 115 120 125

Leu Leu Phe Ala Gly Gln Val Pro Lys Asn Arg Gln Met Phe Leu Leu 130 135 140

Lys Asp Gln Pro Ile Arg Leu Val Arg Thr Arg Arg Leu Trp Pro Arg 145 150 155 160

Ala Ser Pro Leu Gln Ala Cys Gly Leu Arg Trp His Leu Ala Ala Gly 165 170 175

Pro Gln Pro Gly Glu Gly Tyr Tyr 180

<210> 1234

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1234

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg 1 5 10 15 Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly 20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala 35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly
50 55 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg
65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile 85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala 100 105 110

Lys Lys 130

<210> 1235

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1235

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg 1 5 10 15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly 20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala 35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly 50 55 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg 65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile 85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala 100 105 110

Lys Lys Lys Lys Lys 130

- <210> 1236
- <211> 399
- <212> PRT
- <213> Homo sapiens
- <400> 1236
- Met Gly Ile Leu Leu Gly Leu Leu Leu Gly His Leu Thr Val Asp
- Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro 20 25 30
- Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
- Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro 50 55 60
- Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala 65 70 75 80
- Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val 85 90 95 .
- Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr 100 105 110
- Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp 115 120 125
- Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
- Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg 145 150 155 160
- Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile 165 170 175
- Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr 180 185 190
- Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser 195 200 205
- Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp 210 215 220
- Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys 225 230 235 240
- Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr 245 250 255
- Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly 260 265 270
- Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile 275 280 285

Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile 290 295 300

Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala 305 310 315 320

Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val 325 330 335

Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn 340 345 350

Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln 355 360 365

Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val 370 380

Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys 385 390 395

<210> 1237

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1237

Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp 1 5 10 15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  $20 \\ 25 \\ 30$ 

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly 35 40 45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro 50 60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala 65 70 75 80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85
90
95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr 100 105 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp 115 120 125

Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr 130 135 140

Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg 145 150 155 160

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Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
                                    170
Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
                                185
Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
                                                205
Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
                        215
Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
                                        235
                    230
Thr Glu Ala Pro Thr Thr Met. Thr Tyr Pro Leu Lys Ala Thr Ser Thr
Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
                                265
Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
                                        315
305
Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
                325
Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
                                345
            340
Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
                            360
        355
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Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys

390

Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val

<210> 1238

<211> 209

<212> PRT

<213> Homo sapiens

<220>

385

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (128) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (147) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (152) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1238 Met Ala Lys Phe Arg Arg Thr Cys Ile Ile Leu Ala Leu Xaa Ile Leu Xaa Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu 40 His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu 70 Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu 90 Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly 105 Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His Asn Pro Xaa Asp Asp Ile Gly Xaa Ser Phe Tyr Pro Glu Leu Gly Ser 150 155 Tyr Ser Ser Arg Asp Pro Ser Val Ile Glu Thr His Met Arg Gln Met 170 Arg Ser Ala Ser Ile Gly Asn Tyr Cys Ile Tyr Ile Tyr Met Cys Val 180 185 Phe Val Ser Val Tyr Met His Ile Asn Asp Phe Leu Cys Asn Phe Asn

Ser

200

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<210> 1239
<211> 81
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<212> PRT

<213> Homo sapiens

<400> 1239

Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro 1 5 10 15

Thr Cys Gly Phe Ser Ser Tyr Val His Leu Thr Arg Ile Tyr Tyr Phe 20 25 30

Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro 35 40 45

Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe 50 60

Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys 65 70 75 80

Phe

<210> 1240

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1240

Met Ala Lys Phe Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile 1 5 10 15

Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn 20 25 30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu 35 40 45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser 50 55 60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu 65 70 75 80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu 85 90 95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
100 105 110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Leu 115 120 125

Glu His Trp Asp Pro 130

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<210> 1241
<211> 886
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (234)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (275)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (871)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1241
Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Thr Leu Ser Val Leu
Leu Ala Ala-Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys
Val Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu
Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala
Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile
Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
                                105
Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
                            120
        115
Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
                  135
                                            140
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Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr 155 150 Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala 170 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr 185 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu Ala Val Tyr Lys Asn Val Arg Pro Ala Xaa Val Arg Leu Leu Ile Leu 235 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr Glu Leu Xaa Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu 315 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val 340 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu 395 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg 405 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp 425 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val 440 435

Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro

455

Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly 475 Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser His Leu Val Ala Thr Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser 505 Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met 520 Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln 535 Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser 550 555 Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys 570 565 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln 585 Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val 600 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr 615 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr 630 635 Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu 650 Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp 680 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln 695 Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile 710 715 Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu 745 Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro 760 Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp 785 790 795 800

Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu 805 810 815

Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp 820 825 830

Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His 835 840 845

Glu Ala Ser Gly Thr Thr Ala Ser Leu Pro Leu Pro Leu Ala Thr Arg 850 855 860

Ser Pro Thr Ser Ala Leu Xaa Glu Gln Ser Ser Arg Met Thr Leu Trp 865 870 875 880

Cys Leu Cys Arg Pro Pro 885

<210> 1242

<211> 831

<212> PRT

<213> Homo sapiens

<400> 1242

Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Thr Leu Ser Val Leu 1 10 15

Leu Ala Ala Gly Pro Ser Ala Ala Ala Ala Lys Leu Asn Ile Pro Lys
20 25 30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu 35 40 45

Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala 50 55 60

Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala 65 70 75 80

Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile 85 90 95

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile 100 105 110

Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu 115 120 125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser 130 135 140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr 145 150 155 160 Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val Ser Gly Met Lys Thr Gly Ser Ser Lys Leu Lys Ala Arg Ile Gln Glu Ala Val Tyr Lys Asn Val Arg Pro Ala Glu Val Arg Leu Leu Ile Leu 235 230 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly 250 Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr Glu Leu Ser Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser 280 Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu 315 310 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro 330 Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val 345 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile 360 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu 390 395 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg 405 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp 425 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val 440 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro 455

475

Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly

470

- Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr 485

  Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser 500
- Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met 515 520 525
- Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln 530 540
- Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser 545 550 555 560
- Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys 565 570 575
- Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln 580 585 590
- Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val 595 600 605
- Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr 610 615 620
- Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr 625 630 635 640
- Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu 645 650 655
- Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile 660 665 670
- Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp 675 680 685
- Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln 690 695 700
- Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile 705 710 715 720
- Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala 725 730 735
- Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu 740 745 750
- Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro 755 760 765
- Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn 770 780
- Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp 785 790 795 800

Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu 805 810 815

Ala Ala Ser Ser Leu Ser Cys His Ala Ala Gly Val Pro Gly Arg 820 825 830

<210> 1243

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1243

Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala 1 5 10 15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Gly Gly Gln Leu Leu His 20 25 30

Asn Gly Thr Cys Val Pro Xaa Thr Ala Cys Pro Cys Thr Gln His Ser 35 40 45

Leu Pro Trp Gly Leu Thr Leu Thr Leu Glu Glu Gln Ala Gln Glu Leu
50 60

Xaa Pro Gly Thr Val Leu Thr Arg Asn Cys Thr Pro Leu Cys Leu Pro 65 70 75 80

Leu Trp Ser Leu Gln Leu Leu Pro Arg 85

<210> 1244

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1244

Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn 1 10 15

Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly 20 25 30

Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser 35 40 45

Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr

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His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg 65 70 75
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<210> 1245

50

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1245

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala 20 25 30.

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe 35 40 45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala 50 55 60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro 65 70 75 80

Arg Trp Ser Leu Gln Leu Leu Pro Arg 85

<210> 1246

<211> 334

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

·<400> 1246

Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly

Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu 25 Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala Thr Pro Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe 105 100 Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Xaa Ile Ser Ser Val 120 Xaa Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg 135 Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu 150 155 Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu 170 Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val 185 Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe 200 Leu Val Tyr Arg Arg Xaa Pro Pro Pro Arg Ser Leu Ser Pro Ser Xaa 215 220 Pro Ala Asp Gln Asn Gln Ala Glu Arg Arg Arg Thr Gly Thr Thr Gly 230 Cys His Thr Arg Gln Glu Glu Val Trp Thr Val Met Val Arg Arg Pro 250 Cys Ile Ser Leu Arg Val Ala Ser Gly Ser Ser Val Asp Arg Thr Val 265 Pro Pro Gly Thr His Leu Gln Val Asp Pro Glu Ala Ser Arg Pro Gly 280 Leu Glu Arg Arg Pro Gln Gly Leu Ser Gly Asp Ser Glu Ala Ala Pro . Pro Thr Thr Tyr Leu Ile Leu Pro Thr Gln Asp Cys Pro Val Asn Ser

Arg Gln Leu Asn Lys Gln Ala Gly Tyr Ser Gly Ser His Leu

315

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<210> 1247
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<211> 226

<212> PRT

<213> Homo sapiens

<400> 1247

Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly
1 5 10 15

Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu 20 25 30

Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu 35 40 45

Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser 50 55 60

Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala 65 70 . 75 80

Thr Pro Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala 85 90 95

Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe 100 105 110

Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Ser Ile Ser Ser Val 115 120 125

Leu Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg 130 135 140

Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu 145 150 155 160

Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu 165 170 175

Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val 180 185 190

Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe 195 200 205

Leu Val Tyr Arg Arg Ser Thr Ala Ala Ser Glu Leu Glu Pro Leu Leu 210 215 220

Pro Ser 225

<210> 1248

<211> 184

<212> PRT

Ų

<213> Homo sapiens

<400> 1248

Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile 1 5 10 15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn 20 25 30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr 35 40 45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe 50 55 60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala 65 70 75 80

Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn 85 90 95

Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser 100 105 110

Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys 115 120 125

Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys 130 135 140

His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val 145 150 155 160

Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile 165 170 175

Ser Ile Cys Ala Asp Ile His Val 180

<210> 1249

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1249

Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile 1 5 10 15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn 20 25 30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr 35 40 45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala

Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn 85 90 95

75

Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser 100 105 110

Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys 115 120 125

Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys 130 135 140

His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val 145 150 155 160

Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile 165 170 175

Ser Ile Cys Ala Asp Ile His Val 180

<210> 1250

<211> 173

<212> PRT

<213> Homo sapiens

<400> 1250

Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val 1 5 10 15

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg 40 45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser 50 55 60

Arg, Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala 65 70 75 80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala 85 90 95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly
. 100 105 110

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala 115 120 125

Ala Thr Arg Ser Ala Lys Arg Trp Ser Trp Ser Ser Ala Ser Gly Pro 130 135 140

Leu Gln Leu Pro Ala Gly Arg Leu Leu Gln Asp Gln Gln Val Gly Glu 145. 150 155 160

## Ser Cys Cys Cys Ser Thr His Leu Leu Arg Gly Gln Ser 165 . 170

<210> 1251 <211> 359 <212> PRT

<213> Homo sapiens

<400> 1251

Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val 1 5 10 15

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met 20 25 30

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg 35 40 45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser 50 60

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala 65 70 75 80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala 85 90 95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly 100 105 110.

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala 115 120 125

Ala His Ser Leu Ser Glu Glu Met Glu Leu Glu Phe Arg Lys Arg Ser 130 135 140

Pro Tyr Asn Tyr Leu Gln Val Ala Tyr Phe Lys Ile Asn Lys Leu Glu 145 150 155 160

Lys Ala Val Ala Ala Ala His Thr Phe Phe Val Gly Asn Pro Glu His
165 170 175

Met Glu Met Gln Gln Asn Leu Asp Tyr Tyr Gln Thr Met Ser Gly Val 180 185 190

Lys Glu Ala Asp Phe Lys Asp Leu Glu Thr Gln Pro His Met Gln Glu 195 200 205

Phe Arg Leu Gly Val Arg Leu Tyr Ser Glu Glu Gln Pro Gln Glu Ala 210 215 220

Val Pro His Leu Glu Ala Ala Leu Gln Glu Tyr Phe Val Ala Tyr Glu 225 230 235 240

Glu Cys Arg Ala Leu Cys Glu Gly Pro Tyr Asp Tyr Asp Gly Tyr Asn 245 250 255

Tyr Leu Glu Tyr Asn Ala Asp Leu Phe Gln Ala Ile Thr Asp His Tyr 260 265 270

Ile Gln Val Leu Asn Cys Lys Gln Asn Cys Val Thr Glu Leu Ala Ser 275 280 285

His Pro Ser Arg Glu Lys Pro Phe Glu Asp Phe Leu Pro Ser His Tyr 290 295 300

Asn Tyr Leu Gln Phe Ala Tyr Tyr Asn Ile Gly Asn Tyr Thr Gln Ala 305 310 315 320

Val Glu Cys Ala Lys Thr Tyr Leu Leu Phe Phe Pro Asn Asp Glu Val 325 330 335

Met Asn Gln Asn Leu Ala Leu Leu Cys Ser Tyr Ala Trp Arg Arg Thr 340 345 350

His Gln Ile His Arg Pro Pro 355

<210> 1252

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1252

Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Val Asn Ser 1 5 10 15

Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro 20 25 30

Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu 35 40 45

Met Tyr Gln Lys Asn Arg Gln Asp Gly Ser Lys Val Phe Phe Lys 50 55 60

Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys
65 70 75

<210> 1253

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1253 ·

Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Val Asn Ser 1 5 10 15

Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro 20 25 30

Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu 35 40 45

```
Met Tyr Gln Lys Asn Arg Arg Gln Asp Gly Ser Lys Val Phe Phe Lys
50 55 60
```

Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys
65 70 75

```
<210> 1254
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<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1254

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu 1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr 20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys 35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys 50 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala 65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile 85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly 115 120 125

Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu 130 . 135 140

<210> 1255

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1255

Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile 1 5 10

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile 20 25 30

Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser 35 40 45

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser 50 55 60

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr 65 70 75 80

Ser Leu Thr Gly Tyr Val 85

<210> 1256

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1256

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu 1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr 20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys 35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys 50 55 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala 65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile 85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg 100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly 115 120 125

Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu 130 140

Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile 145 150 155 160 Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile 165 170 175

Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser 180 185 190

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser 195 200 205

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr 210 215 220

Ser Leu Thr Gly Tyr Val 225 230

<210> 1257

<211> 331

<212> PRT

<213> Homo sapiens

<400> 1257

Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser Phe 1 5 10 15

Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn Ala Cys 20 25 30

Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe Ser Phe Glu 35 40 45

Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys Pro Arg Asp Arg 50 55 60

Ile Ser Ala Ile Ala His Arg Gly Gly Ser His Asp Ala Pro Glu Asn 65 70 75 80

Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys Asn Gly Ala Thr Gly Val

Glu Leu Asp Ile Glu Phe Thr Ser Asp Gly Ile Pro Val Leu Met His 100 105 110

Asp Asn Thr Val Asp Arg Thr Thr Asp Gly Thr Gly Arg Leu Cys Asp

Leu Thr Phe Glu Gln Ile Arg Lys Leu Asn Pro Ala Ala Asn His Arg 130 135 140

Val Ala Glu Cys Leu Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys 165 170 175

Gly His Ala His Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu 180 185 190 Phe Pro Gln Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu 195 200 205

Val Ile Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu 210 215 220

Thr His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg 225 230 235 240

Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile Leu 245 250 255

Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly Ile Ser 260 265 270

Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr Leu Lys Lys 275 280 285

Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr Val Asn Thr Phe 290 295 300

Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly Ser Ser Tyr Ile Thr 305 310 315 320

Asp Ser Met Val Glu Asp Cys Glu Pro His Phe 325 330

<210> 1258

<211> 27

<212> PRT

<213> Homo sapiens

<400> 1258

Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg

1 10 15

Pro Ile Gly Val His Leu His Ser Val Arg Asp

<210> 1259

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1259

Ala Arg Gly Arg Leu Leu Pro Trp Trp Leu Ala Ala Gly Cys Ser Met

1 10 15

Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu Leu 20 25 30

Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser Gln 40

Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro Asn 50 55 60

Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met Leu Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro Ser Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe Val Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg Ser Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys His Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Phe Pro Phe Val Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg 215 Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser 230 235 Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu 245 250 Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg 260 265 Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg 280 Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu 295 Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys 310 315 Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys 325 His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser 345 Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp 360 Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu

380

375

Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys 385 390 395 400

Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp 405 410 415

Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser 420 425 430

Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp 450 460

Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu Glu 465 470 475 480

Val Ile Leu Arg Asp 485

<210> 1260

<211> 470

<212> PRT

<213> Homo sapiens

<400> 1260

Met Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu 1 5 10 15

Leu Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser 20 25 30

Gln Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro 35 40 45

Asn Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met 50 55 60

Leu Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro 65 70 75 80

Ser Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe

Val Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg 100 105 110

Ser Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys 115 120 125

His Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Phe Pro Phe 130 135 140

Val Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr 145 150 155 160

Ala Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu 185 Ser Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly 200 Arg Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly Lys Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu

Glu Val Ile Leu Arg Asp

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<210> 1261
<211> 37
<212> PRT
<213> Homo sapiens
<400> 1261
Met Pro Asp Lys Arg Glu Ala Thr Ala Ala Ala Val Ala Leu Phe Ile
Val Pro Leu Gly Val Trp Met Arg Gly Ser Arg Gly Tyr Ser Ala Ala
His Glu Gly Ser Leu
         35
<210> 1262
<211> 37
<212> PRT
<213> Homo sapiens
<400> 1262
Met Pro Asp Lys Arg Glu Ala Thr Ala Ala Ala Val Ala Leu Phe Ile
Val Pro Leu Gly Val Trp Met Arg Gly Ser Arg Gly Tyr Ser Ala Ala
                                 25
His Glu Gly Ser Leu
         35
<210> 1263
<211> 105
<212> PRT
<213> Homo sapiens
<400> 1263
Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Val Gly
                                     10
Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly
             20
                                 25
Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys Pro Cys Pro
                             40
Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser
Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala
Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile
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85

90

Met His Leu Leu Leu Pro Pro Gly Leu 100 105

<210> 1264

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1264

Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Gly
1 5 10 15

Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly 20 25 30

Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys Pro Cys Pro 35 40 45

Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser 50 60

Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala 65 70 75 80

Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile 85 90 95

Met His Leu Leu Pro Pro Gly Leu 100 105

<210> 1265

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1265

Met Thr Leu Cys Leu Val Thr Phe Leu Thr Ser Leu Pro Thr Ser Val 1 5 10 15

Pro Ala Cys Thr Ser Cys Trp Pro Gly Phe Met Arg Ser Ser Lys Asn 20 25 30

Ala Tyr Asp Thr His His Trp Gly Gly Gln Arg Ser Met Asn Leu Glu
35 40 45

Ser Leu Thr Cys Gly Gln Leu Ala Ile Arg Trp Thr Arg Gly Trp Met 50 55 60

Thr Arg Pro Arg Gln Val Trp Ala Met Pro Gly Gln Thr Val Asp Val 65 70 75 80

Tyr Leu Gly Arg Met Leu Gln Gly Val Val Leu Arg Gly Gln Thr Leu 85 90 95

Arg Gly Arg Ala Xaa

<210> 1266

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1266

Lys Ala Val Thr Gly Trp Ala His Trp Leu Thr Pro Ile Ile Pro Ala 1 5 10 15

Leu Trp Glu Ala Lys Ala Gly Arg Ser Leu Glu Val Arg Ile Ser Arg 20 25 30

Pro Ala Trp Ser Thr Trp Gln Asn Leu Val Ser Thr Lys Asn Thr Lys 35 40 45

Ile Arg

<210> 1267

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1267

Glu Val Leu Phe Ser Asn Asp Ser Val Leu Gly His Phe Pro His Gln

Ser Pro Asn Glu Arg Ala Arg Leu Tyr Phe Leu Leu Ala Trp Phe His 20 25 30

Ala Ile Ile Gl<br/>n Glu Arg Leu Arg Tyr Ala Pro Leu Gly Tr<br/>p Ser Lys 35 40 45

Lys Tyr Glu Phe Gly Glu Ser Asp Leu Arg Ser Ala Cys Asp Thr Val

Asp Thr Trp Leu Asp Asp Thr Ala Lys Ala Ser Val Gly His Ala Arg
65 70 75 80

Thr Asp Ser Gly Arg Val Ser Gly Lys Asp Ala Ala Gly Arg Gly Ala 85 90 95

Glu Arg Pro Asp Ser Ala Trp Lys Ser Glu Leu Thr Pro Arg Asp Arg 100 105 110

Gln Ser Leu Ala Gly His Gly Glu 115 120

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<210> 1268
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<211> 103

<212> PRT

<213> Homo sapiens

<400> 1268

Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile 1 10 15

Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu 20 25 30

Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu 35 40 45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
50 55 60

Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln 65 70 75 80

His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala 85 90 95

Ala Ser Pro Gln Ala Thr Asn 100

<210> 1269

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1269

Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile 1 5 10 15

Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu 20 25 30

Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu 35 40 45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly 50 55 60

Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln 65 70 75 80

His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala 85 90 95

Ala Ser Pro Gln Ala Thr Asn Ser Thr Gln Val Ser Gln Pro Ser Gly 100 105 110

Ala Met Thr Arg Ser Gln Glu Ser Val Phe Met Gly Pro Gln Glu Pro 115 120 125

Ser Cys Asp Ser Gly Ile Leu Arg Met Met Ser Arg Arg Asp Val Arg

130 135 140

Ala Glu Leu Phe Leu Trp Ser Phe Leu Leu Trp Ser Asp Thr Ile Glu 145 150 155 160

Met Val Arg Val Ala Gly His Pro Asn Val Tyr Lys Ser Ser Trp Leu 165 170 175

Tyr Pro Val Tyr Ile Phe Ser Phe Ile Ser Leu Leu Arg Ile Thr Phe 180 185 190

Thr Pro Gln Asn Pro Leu Leu Asn Ser Leu Ser Val Leu Leu Gln Asp 195 200 205

Leu Pro Phe Val Phe Val Arg Leu Gly Leu Ile Ile Ala Leu Gly Thr 210 215 220

Ile Thr Pro Val Leu Gly Leu Cys Lys Asn Ile Leu Val Thr Leu Ser 225 230 235 240

Tyr Ile Tyr Phe Asn Tyr Leu Thr Arg Ile Arg Ile Phe Ser Ala Phe 245 250 255

Glu Met Ser Pro Phe 260

<210> 1270

<211> 277

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1270

Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro 1 5 10 15

Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly 35 40 45

Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn 50 55 60

Tyr Thr Ala Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly 65 70 75 80

Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro

85

Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys
100 105 110

90

Gin Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn 115 120 125

Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys 130 135 140

Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Xaa Glu Asn 145 150 155 160

Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly 165 170 175

Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val 180 185 190

Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn 195 200 205

Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu 210 215 220

Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr 225 230 235 240

Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Lys Ile Tyr 245 250 255

Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Glu Asn Thr 260 265 270

Ile Val Ser Gly Xaa 275

<210> 1271

<211> 832

<212> PRT

<213> Homo sapiens

<400> 1271

Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro 1 5 10 15

Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly
35 40 45

Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn 50 55 60

Tyr Thr Ala Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly
65 70 75 80

Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys 105 Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn 120 Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys 130 Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Met Glu Asn 155 150 Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly 170 165 Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val 185 Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn 200 205 Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu 215 Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr 235 230 fle Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Lys Ile Tyr Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Glu Asn Thr 265 Ile Val Ser Arg Ile Ala Arg Ile Cys Lys Gly Asp Glu Gly Glu Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu Lys Ala Gln Leu Leu 295 Cys Ser Arg Pro Asp Asp Gly Phe Pro Phe Asn Val Leu Gln Asp Val 315 Phe Thr Leu Ser Pro Ser Pro Gln Asp Trp Arg Asp Thr Leu Phe Tyr 330 Gly Val Phe Thr Ser Gln Trp His Arg Gly Thr Thr Glu Gly Ser Ala 340 Val Cys Val Phe Thr Met Lys Asp Val Gln Arg Val Phe Ser Gly Leu 360 Tyr Lys Glu Val Asn Arg Glu Thr Gln Gln Trp Tyr Thr Val Thr His 375 370

395

Pro Val Pro Thr Pro Arg Pro Gly Ala Cys Ile Thr Asn Ser Ala Arg

390

Glu Arg Lys Ile Asn Ser Ser Leu Gln Leu Pro Asp Arg Val Leu Asn Phe Leu Lys Asp His Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met 420 425 Leu Leu Cln Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg 440 Val Pro Gly Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly Asp Gly Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile 470 Ile Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser Gly 505 Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser Cys Gly 520 Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Gly Ser Ser Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala Thr Arg Pro Trp 555 Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp Leu Cys Ser Ala Ser Ser Val Val Ser Pro Ser Phe Val Pro Thr Gly Glu Lys Pro Cys Glu Gln Val Gln Phe Gln Pro Asn Thr Val Asn Thr Leu Ala Cys Pro Leu 595 Leu Ser Asn Leu Ala Thr Arg Leu Trp Leu Arg Asn Gly Ala Pro Val 615 Asn Ala Ser Ala Ser Cys His Val Leu Pro Thr Gly Asp Leu Leu Leu 630 625 Val Gly Thr Gln Gln Leu Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu 645 650 Gly Phe Gln Gln Leu Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp 660 Gly Val Ala Asp Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile 680 Ser Thr Ser Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly 695 700

715

Ala Asp Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe

710

<221> SITE <222> (184)

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Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg
725 730 735
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Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val His 740 745 750

Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro Leu Asn 755 760 765

Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly Tyr Gln Ser 770 780

Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe Thr Glu Ser Glu Lys 785 790 795 800

Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu Val Ser Pro Val Cys 805 810 815

Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile Arg Asp Ser Val Val 820 825 830

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<210> 1272
<211> 196
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1272

Met Gly Lys Trp Lys Glu Ser Leu Gln Asn Ala Xaa His Leu Pro Pro 1 5 10 15

Ile Leu Leu Leu Arg Xaa Ile His Leu Phe Cys Ala Val Leu Ala Gly
20 25 30

Gly Lys Glu Asn Gly Gln Met Ala Val Ser Asp Gly Ser Val Lys Gly 35 40 45

Leu Leu Ser Val Val Arg Xaa Trp Ser Arg Gly Pro Ala Pro Asp Pro 50 55 60

Cys Leu Val Pro Leu Ala Leu Glu Ala Leu Val Gly Ala Val His Val
65 70 75 80

Leu His Ala Ser Arg Ala Pro Pro Arg Gly Pro Glu Leu Arg Ala Leu 85 90 95

Leu Glu Ser Tyr Phe His Val Leu Asn Ala Asp Trp Pro Ala Gly Leu 100 105 110

Ser Ser Gly Pro Glu Glu Ala Leu Val Thr Leu Arg Val Ser Met Leu 115 120 125

Asp Ala Ile Pro Met Met Leu His Val Lys Thr Gly Gln Cys Leu Gln 130 135 140

Pro Pro Xaa Ser Ala'Thr Ile Ala Leu Asn Thr Xaa Leu Gly Ser Phe 145 150 155 160

Lys Asn Lys Gln Gly Ser Trp Thr Lys Thr Gln Thr His Cys Ser Pro 165 170 175

Cys Ser Gln Ser Ala Asp Leu Xaa His Glu Val Thr Pro Leu Gly Pro 180 185 190

Arg Arg Trp Leu 195

<210> 1273

<211> 347

<212> PRT

<213> Homo sapiens

<400> 1273

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln
1 10 15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser 20 25 30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly

50 55 60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu 105 Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr . 135 130 Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu 155 His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu 170 165 Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr 185 Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu 205 200 Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr 235 Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp 295 Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys

<210> 1274 <211> 347

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln

<212> PRT <213> Homo sapiens

<400> 1274

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln 1 5 10 15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser 20 25 30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser 40 45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly 50 55 60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu 65 70 75 80

Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu 85 90 95

Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu
100 105 110

Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu 115 120 125

Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr 130 135 140

Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu 145 150 155 160

His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu 165 170 175

Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr 180 185 190

Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu 195 200 205

Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu 210 215 220

Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr 225 230 235 240

Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe
245 250 255

Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu 260 265 270

Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp 275 280 285

Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp 290 295 300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys 305 310 315 320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys 325 330 335

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln 340 345

<210> 1275

<211> 347

<212> PRT

<213> Homo sapiens

<400> 1275

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln 1 5 10 15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser 20 25 30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser 35 40 45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly 50 55 60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu 65 70 75 80

Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu
85 90 95

Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu 100 105 110

Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu 115 120 125

Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr 130 135 140

Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu 145 150 155 160

His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu 165 170 175

Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr

Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu 195 200 205

Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu 210 215 220

Gln Val Leu Gly Lys Asp Leu Leu Pro Gln Pro Asp Leu Arg Tyr 225 230 235 240

Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe 245 250 255

Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu 260 265 270

Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp 275 280 285

Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp 290 295 300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys 305 310 315 320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys 325 330 335

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln 340 345

<210> 1276

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1276

Met Leu Met Leu Met Leu Met Met Phe Ala Val His Cys Thr Trp 1 5 10 15

Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr 20 25 30

Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr 35 40 45

Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp 50 55 60

Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu 65 70 75 80

Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys
85 90 95

Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu 100 105 110

Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser 115 120 125

- Gly Asp Asp Ile Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly 130 135 140
- Glu His Pro Lys Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly 145 150 155 160
- Glu Phe Arg Val Asp Lys Ala Gly Ser Pro Thr Leu Xaa Asn Cys Leu 165 170 175
- Met Tyr Lys Met Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe 180 185 190
- Arg Thr Pro Pro Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn 195 200 205
- Lys Asp Ile Lys Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His 210 215 220
- Trp Leu Val Arg Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr 225 230 235 240
- Leu Asp His Lys Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr 245 250 255
- Leu Ser Lys Lys Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys 260 265 270
- Leu Val Phe Lys Lys Gly Lys Lys Ile Ser Lys Lys Thr Val 275 280 285

<210> 1277

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1277

- Met Leu Met Leu Met Leu Leu Met Met Phe Ala Val His Cys Thr Trp 1 5 10 15
- Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr 20 25 30
- Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr 35 40 45
- Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp . 50 55 60
- Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu 65 70 75 80
- Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys 85 90 95
- Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu 100 105 110

- Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser 115 120 125
- Gly Asp Asp Ile Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly 130 135 140
- Glu His Pro Lys Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly 145 150 155 160
- Glu Phe Arg Val Asp Lys Ala Gly Ser Pro Thr Leu Leu Asn Cys Leu 165 170 175
- Met Tyr Lys Met Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe 180 185 190
- Arg Thr Pro Pro Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn 195 200 205
- Lys Asp Ile Lys Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His 210 215 220
- Trp Leu Val Arg Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr 225 230 235 240
- Leu Asp His Lys Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr 245 250 255
- Leu Ser Lys Lys Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys 260 265 270
- Leu Val Phe Lys Lys Gly Lys Lys Ile Ser Lys Lys Thr Val 275 280 285
- <210> 1278
- <211> 135
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (134)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1278
- Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Pro Leu Cys Pro 1 5 10
- Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys 20 25 30
- Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu 35 40 45
- Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln 50 55 60
- Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu 65 70 75 80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu 85 90 95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp 100 105 110

Pro Gly Gly Cys Pro Ser Leu Leu Cys Lys Ala Trp Arg Leu Glu Glu 115 120 125

Met Trp Ser Ser Glu Xaa Ala 130 135

<210> 1279

<211> 134

<212> PRT

<213> Homo sapiens

<400> 1279

Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Pro Leu Cys Pro 1 5 10 15

Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys 20 25 30

Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu
35 40 45

Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln 50 55 60

Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu 65 70 75 80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu 85 90 95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp 100 105 110

Pro Gly Gly Cys Pro Ser Leu Cys Ala Gly Pro Gly Asp Trp Lys Lys 115 120 125

Cys Gly Gln Arg Cys Ala 130

<210> 1280

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids.

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<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1280
Cys Ala Leu Xaa Phe Glu Phe Phe Phe Phe Phe Phe Leu Arg Trp
 1
Ser Leu Gly Asn Lys Ala Arg Leu Xaa Gln Lys Lys Lys Lys Lys
Lys Thr Ser Val Gly Lys Asn Met Glu Asn Trp Asn Pro Asp Thr Leu
Leu Val Gly Leu
     50
<210> 1281
<211> 17
<212> PRT
<213> Homo sapiens
<400> 1281
Met Arg Val Val Ser Gly Thr Leu Phe Ile His Phe Leu Val Leu Ile
                                    10
Phe
<210> 1282
<211> 17
<212> PRT
<213> Homo sapiens
<400> 1282
Met Arg Val Val Ser Gly Thr Leu Phe Ile His Phe Leu Val Leu Ile
                                    10
                5
Phe
<210> 1283
<211> 182
<212> PRT
<213> Homo sapiens
<400> 1283
Met Ala Lys Arg Ser Arg Gly Pro Gly Arg Arg Cys Leu Leu Ala Leu
Val Leu Phe Cys Ala Trp Gly Thr Leu Ala Val Val Ala Gln Lys Pro
                                 25
             20
```

Gly Ala Gly Cys Pro Ser Arg Cys Leu Cys Phe Arg Thr Thr Val Arg 35 40 45

Cys Met His Leu Leu Glu Ala Val Pro Ala Val Ala Pro Gln Thr
50 55 60

Ser Ile Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu Ile Gln Pro Gly 65 70 75 80

Ala Phe Arg Arg Leu Arg Asn Leu Asn Thr Leu Leu Leu Asn Asn Asn 85 90 95

Gln Ile Lys Arg Ile Pro Ser Gly Ala Phe Glu Asp Leu Glu Asn Leu
100 105 110

Lys Tyr Leu Tyr Leu His Phe Asn Gln Ile Glu Thr Leu Asp Pro Asp 115 120 125

Ser Phe Gln His Leu Pro Lys Leu Glu Arg Leu Phe Leu His Asn Asn 130 135 140

Arg Ile Thr His Leu Val Pro Gly Thr Phe Asn His Leu Glu Ser Met 145 150 155 160

Lys Arg Leu Arg Leu Asp Ser Asn Thr Leu His Cys Asp Cys Glu Ile 165 170 175

Leu Trp Leu Arg Ile Cys 180

<210> 1284

<211> 550

<212> PRT

<213> Homo sapiens

<400> 1284

Ala Leu Pro Gln Gln Ala Ala Val Ala Gly Ile Val Gln Arg Ser Gly
1 5 10 15

Lys Pro Leu Leu Pro Phe Ala Thr Gly Pro Pro Thr Glu Cys Met Arg
20 25 30

Asp Glu Asn Glu Ser Pro Ile Pro Cys Phe Leu Ala Gly Asp His Arg
35 40 45

Ala Asn Glu Gln Leu Gly Leu Thr Ser Met His Thr Leu Trp Phe Arg 50 55 60

Glu His Asn Arg Ile Ala Thr Glu Leu Leu Lys Leu Asn Pro His Trp 65 70 75 80

Asp Gly Asp Thr Ile Tyr Tyr Glu Thr Arg Lys Ile Val Gly Ala Glu  $85\,$  90  $\,$  95

Ile Gln His Ile Thr Tyr Gln His Trp Leu Pro Lys Ile Leu Gly Glu
100 105 110

Val Gly Met Arg Thr Leu Gly Glu Tyr His Gly Tyr Asp Pro Gly Ile

115 120 125

Asn	Ala 130	Gly	Ile	Phe	Asn	Ala 135	Phe	Ala	Thr	Ala	Ala 140	Phe	Arg	Phe	Gly
His 145	Thr	Leu	Val	Asn	Pro 150	Leu	Leu	Tyr	Arg	Leu 155	Asp	Glu	Asn	Phe	Glr 160
Pro	Ile	Ala	Gln	Asp 165	His	Leu	Pro	Leu	His 170	Lys	Ala	Phe	Phe	Ser 175	Pro
Phe	Arg	Ile	Val 180	Asn	Glu	Gly	Gly	Ile 185	Asp	Pro	Leu	Leu	Arg 190	Gly	Leu
Phe	Gly	Val 195	Ala	Gly	Lys	Met	Arg 200	Val	Pro	Ser	Gln	Leu 205	Leu	Asn	Thi
Glu	Leu 210	Thr	Glu	Arg	Leu	Phe 215	Ser	Met	Ala	His	Thr 220	Val	Ala	Leu	Ası
Leu 225	Ala	Ala	Ile	Asn	Ile 230	Gln	Arg	Gly	Arg	Asp 235	His	Gly	Ile	Pro	Pro 240
Tyr	His	Asp	Tyr	Arg 245	Val	Tyr	Cys	Asn	Ļeu 250	Ser	Ala	Ala	His	Thr 255	Phe
Glu	Asp	Leu	Lys 260	Asn	Glu	Ile	Lys	Asn 265	Pro	Glu	Ile	Arg	Glu 270	Lys	Let
Lys	Arg	Leu 275	Tyr	Gly	Ser	Thr	Leu 280	Asn	Ile	Asp	Leu	Phe 285	Pro	Ala	Le
Val	Val 290	Glu	Asp	Leu	Val	Pro 295	Gly	Ser	Arg	Leu	Gly 300	Pro	Thr	Leu	Met
Cys 305	Leu	Leu	Ser	Thr	Gln 310	Phe	Lys	Arg	Leu	Arg 315	Asp	Gly	Asp	Arg	Let 320
Trp	Tyr	Glu	Asn	Pro 325	Gly	Val	Phe	Ser	Pro 330	Ala	Gln	Leu	Thr	Gln 335	Ile
Lys	Gln	Thr	Ser 340	Leu	Ala	Arg	Ile	Leu 345	Cys	Asp	Asn	Ala	Asp 350	Asn	Ile
Thr	Arg	Val 355	Gln	Ser	Asp	Val	Phe 360	Arg	Val	Ala	Glu	Phe 365	Pro	His	Gly
Tyr	Gly 370	Ser	Cys	Asp	Glu	Ile 375	Pro	Arg	Val	Asp.	Leu 380	Arg	Val	Trp	Glı
Asp 385	Cys	Сув	Glu	Asp	Cys 390	Arg	Thr	Arg	Gly	Gln 395	Phe	Asn	Ala	Phe	Se:
Tyr	His	Phe	Arg	Gly 405	Arg	Arg	Ser	Leu	Glu 410	Phe	Ser	Tyr	Gln	Glu 415	Ası
Lys	Pro	Thr	Lys 420	Lys	Thr	Arg	Pro	Arg 425	Lys	Ile	Pro	Ser	Val 430	Gly	Ar
Gln	Gly	Glu	His	Leu	Ser	Asn	Ser	Thr	Ser	Ala	Phe	Ser	Thr	Arg	Se:

Asp Ala Ser Gly Thr Asn Asp Phe Arg Glu Phe Val Leu Glu Met Gln 450 455 460

Lys Thr Ile Thr Asp Leu Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg 465 470 475 480

Leu Ser Thr Thr Glu Cys Val Asp Ala Gly Glu Ser His Ala Asn 485 490 495

Asn Thr Lys Trp Lys Lys Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp 500 505 510

Gly Gln Val Thr Cys Phe Val Glu Ala Cys Pro Pro Ala Thr Cys Ala 515 520 525

Val Pro Val Asn Ile Pro Gly Ala Cys Cys Pro Val Cys Leu Gln Lys 530 535 540

Arg Ala Glu Glu Lys Pro 545 550

<210> 1285

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1285

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
1 5 10 15

Cys Cys Cys Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly 25 30

Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro 35 40 45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val 50 55 60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys 65 70 75 80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
85 90 , 95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro 115 120 125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly 130 135 140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu 145 . 150 . 155 . 160

Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu 165 170 175

Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His 180 185 190

Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser 195 200 205

Gly Arg 210

<210> 1286

<211> 173

<212> PRT

<213> Homo sapiens

<400> 1286

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly 1 5 10 15

Cys Cys Cys Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly 20 25 30

Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro 35 40 . 45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val 50 55 60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys 65 70 75 80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys 85 90 95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His 100 105 110

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro 115 120 125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly 130 135 140

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu 165 170

<210> 1287

<211> 148

<212> PRT

<213> Homo sapiens

<400> 1287

Met Thr Trp Lys Ile Lys Leu Arg Ser Ala Val Tyr Leu Ser Asp Ala 1, 5 10 15

Thr Val Thr Leu Gly Asn Leu Val Pro Phe Thr Leu Thr Leu Leu 20 25 30

Cys Phe Leu Leu Leu Cys Ser Leu Cys Lys His Leu Lys Lys Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gln Leu His Gly Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His Ile 50 55 60

Lys Val Leu Gln Thr Val Ile Phe Phe Leu Leu Cys Ala Ile Tyr 65 70 75 80

Phe Leu Ser Ile Met Ile Ser Val Trp Ser Phe Gly Ser Leu Glu Asn 85 90 95

Lys Pro Val Phe Met Phe Cys Lys Ala Ile Arg Phe Ser Tyr Pro Ser 100 105 110

Ile His Pro Phe Ile Leu Ile Trp Gly Asn Lys Lys Leu Lys Gln Thr
115 120 125

Phe Leu Ser Val Leu Arg Gln Val Arg Tyr Trp Val Lys Gly Glu Lys 130 135 140

Pro Ser Ser Pro 145

<210> 1288

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1288

Asn Glu Arg Val Leu Thr Tyr Ser Leu Ile Gly Ser Ser Ile Ile Arg 1 5 10 15

Lys Lys Cys Thr Val Leu Phe Thr Ala Lys Phe Tyr Leu Thr Val Leu 20 25 30

Ile Leu Gly Val Met Lys Phe Lys Gln Cys Asp Leu Asn Leu Lys Lys

Lys Lys Lys Gly Arg Pro

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<210> 1289
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<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1289

Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu 1 1 15

Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu 20 25 30

Arg Val Arg Val Pro Asp Gly Gln Val Thr Glu Glu Ser Leu 35 40 45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
50 60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys 65 70 75 80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln 85 90 . 95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile 100 105 110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val 115 120 125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val 130 135 140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn 145 150 155 160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val 165 170 175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu 180 185 190

Pro Lys Ala Ser Glu Gln Ala Xaa Leu Pro Arg Cys Arg Gln Val Gly
195 200 205

Asp Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp 210 215 220

Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro 225 230 235 240

Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe  $\cdot$  245 250 255

Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro 260 265 270

Gly

<210> 1290

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1290

Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu 1 5 10 15

Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu 20 25 30

Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu 35 40 45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
50 55 60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys 65 70 75- 80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln 85 90 95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile 100 105 110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val 115 120 125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val 130 135 140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn 145 150 155 160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val 165 170 175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu 180 185 190

Pro Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly 195 200 205

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Asp Arg Gly Lys Pro Cys Val Cys Xaa Tyr Gly Leu Ser Leu Ala Trp 210 215 220
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Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro 225 230 235 240

Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe 245 250 255

Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro 260 265 270

Gly

<210> 1291

<211> 934

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (596)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (852)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1291

Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu 1 5 10 15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly 20 25 30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys
40
45

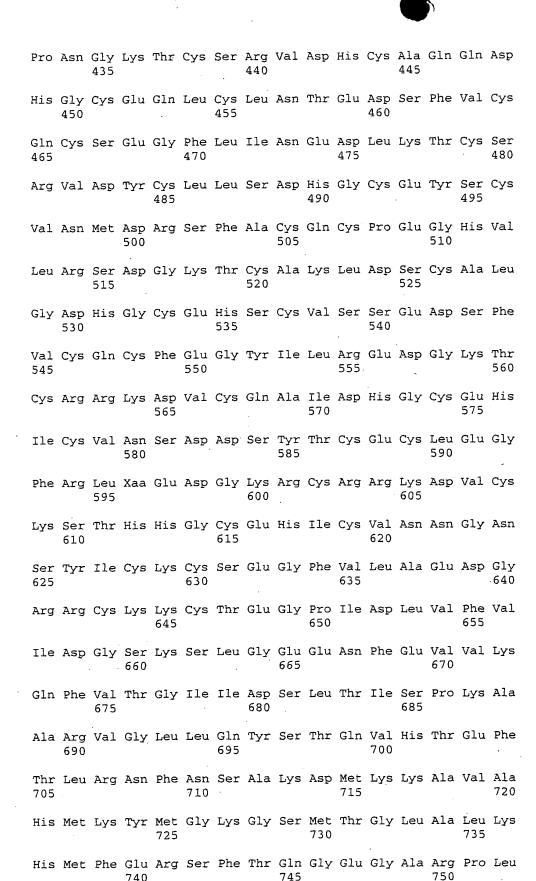
Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser 50 55 60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile 65 70 75 80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu 85 90 95

Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys 100 105 110

- Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser 115 120 125
- Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala 130 135 140
- Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg 145 150 155 160
- Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu 165 170 175
- Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Île Phe Ala Ile Gly 180 185 190
- Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro 195 200 205
- His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr 210 215 220
- Xaa Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser 225 230 235 240
- Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser 245 250 255
- Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr 260 265 270
- Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu 275 280 285
- Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser 290 295 300
- Gly Tyr Ala Leu Ala Glu Asp Gly Lys Arg Cys Val Ala Val Asp Tyr 305 310 315 320
- Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp 325 330 335
- Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp 340 345 350
- Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly 355 360 365
- Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys 370 375 380
- Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile 385 390 395 400
- Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn 405 410 415
- Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp 420 425 430



Ser Thr Arg Val Pro Arg Ala Ala Ile Val Phe Thr Asp Gly Arg Ala 755 760 765

Gln Asp Asp Val Ser Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile 770 775 780

Thr Met Tyr Ala Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln 785 790 . 795 800

Glu Ile Ala Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp 805 810 815

Phe Ser Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys 820 825 . 830

Glu Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu 835 840 845

Leu Pro Lys Xaa Val Gln Gln Pro Thr Val Gln His Arg Tyr Leu Phe 850 860

Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln Lys Leu Ser His Ser Thr 865 870 875 880

Lys Pro Ser Gly Ser Pro Leu Glu Glu Lys His Asp Gln Cys Lys Cys 885 890 895

Glu Asn Leu Ile Met Phe Gln Asn Leu Ala Asn Glu Glu Val Arg Lys 900 905 910

Leu Thr Gln Arg Leu Glu Glu Met Thr Gln Arg Met Glu Ala Leu Glu 915 920 925

Asn Arg Leu Arg Tyr Arg 930

<210> 1292

<211> 794

<212> PRT

<213> Homo sapiens

<400> 1292

Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu
1 10 15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly 20 25 30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys
35 40 45

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser 50 60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile
65 70 75 80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu

Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys 105 Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser 120 Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala 135 130 Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg 155 Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu 170 165 Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly 185 Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro 205 200 His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr Leu Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser 235 230 Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser Gly Tyr Ala Leu Ala Glu Ásp Gly Lys Arg Cys Val Ala Val Asp Tyr Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp 340 Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly 360 Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys 375 370 Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile 395 390 Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn 405

410

Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp 425 Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His Cys Ala Gln Gln Asp 440 His Gly Cys Glu Gln Leu Cys Leu Asn Thr Glu Asp Ser Phe Val Cys 450 455 Gln Cys Ser Glu Gly Phe Leu Ile Asn Glu Asp Leu Lys Thr Cys Ser 475 Arg Val Asp Tyr Cys Leu Leu Ser Asp His Gly Cys Glu Tyr Ser Cys 490 Val Asn Met Asp Arg Ser Phe Ala Cys Gln Cys Pro Glu Gly His Val 505 Leu Arg Ser Asp Gly Lys Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu Gly Asp His Gly Cys Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe Val Cys Gln Cys Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr 550 555 Cys Arg Arg Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His 570 Ile Cys Val Asn Ser Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly Phe Arg Leu Ala Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly Asn Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu Asp Gly 635 Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu Val Phe Val 650 Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe Glu Val Val Lys 660 Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr Ile Ser Pro Lys Ala 680 Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr Gln Val His Thr Glu Phe 695 690 Thr Leu Arg Asn Phe Asn Ser Ala Lys Asp Met Lys Lys Ala Val Ala 715 710

His Met Lys Tyr Met Gly Lys Gly Ser Met Thr Gly Leu Ala Leu Lys

His Met Phe Glu Arg Ser Phe Thr Gln Gly Glu Gly Ala Arg Pro Leu 740 745 750

730

Ser Thr Arg Val Pro Arg Ala Ala Ile Val Phe Thr Asp Gly Arg Ala 755 760 765

Gln Asp Asp Val Ser Glu Trp Ala Ser Lys Ala Arg Pro Trp Tyr His 770 780

Tyr Val Cys Cys Trp Gly Arg Lys Ser His 785

725

<210> 1293

<211> 39

5.

<212> PRT

<213> Homo sapiens

<400> 1293

Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Cys Phe Gly
1 5 10 15

Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu 20 25 30

Asn Arg Met Val Gly Gly Gln 35

<210> 1294

<211> 290

<212> PRT

<213> Homo sapiens

<400> 1294

Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Cys Phe Gly
1 5 10 15

Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu 20 25 30

Asn Arg Met Val Gly Gly Gln Asp Thr Gln Glu Gly Glu Trp Pro Trp 35 40 45

Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser Leu 50 55 60

Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn Thr 65 70 75 80

Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu Val 85 90 95

Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu Ser 100 105 110

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Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu Val
Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val Cys
                        135
Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp Val
                    150
Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro Arg
                                    170
Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys Asn
            180
Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr Ile
                            200
Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp Ala
    210
                        215
Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln Ser
                    230
Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg Gln
                245
                                     250
Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp Ile
His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly Gly
Gln Lys
   290
<210> 1295
<211> 144
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1295
Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp
```

Val Leu Gln Gln Ala Asn Arg Ser Ala Gln Gln Leu Thr Ala Thr Gly
20 25 30

Gln Ser Leu Met Gln Ser Gln Arg Leu Ala Lys Ser Val Ser Gln Ala 35 40 45

Leu Val Gly Ser Pro Gln Ala Phe Pro Asp Val Val Glu Ser Ser Gly 50 55 60

Val Leu Ala Arg Asn Val Arg Ala Leu Asn Gly Gly Xaa Asn Glu Leu 65 70 75 80

Asp Val Gln Ala Leu Gly Glu Pro Phe Arg Pro Glu Leu Asp Ala Ile 85 90 95

Thr Pro Leu Val Glu Arg Ala Glu Arg Asn Ala Gly Val Val Met Gly 100 105 110

Gln Gln Lys Ile Leu Thr Gln Val Gly Xaa Ala Leu Arg Thr Ile Lys 115 120 125

Pro Pro Val Leu Gly Pro Cys Trp Arg Ser Arg Arg Xaa Ser Ser Ser 130 135 140

<210> 1296

<211> 187

<212> PRT

<213> Homo sapiens

<220>.

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1296

Thr Ser Arg Val Trp Cys Pro His Val Arg Arg Asn Arg Pro Ser Xaa 1 5 10 15

Gln Thr Ala Glu Pro Cys Ala Val Asn Trp Lys Ala Cys Lys Ala Thr 20 25 30

Val Gly Thr Ile Gly His Gly Cys Gly Pro Ala Ile Ala Leu Ala Val 35 40 45

Ala Gly Ile Phe Val Leu Leu Cys Gly Val Gly Ile Ser Arg Val Gln
50 55 60

Leu Leu Asp Ser Arg Ser Arg Xaa Ala Thr Ala Glu Ala Gln Gln Arg

Asp Ala Lys Arg Gln Glu Gln Glu Ala Lys Arg Ile Asn Asp Ala Asn 85 90 95

75

Gln Ala Ala Ile Leu Arg Leu Met Asn Glu Leu Gln Ser Val Ala Glu
100 105 110

Gly Asp Leu Thr Gln Glu Ala Thr Val Thr Glu Asp Ile Thr Gly Ala 115 120 125

Ile Ala Asp Ser Val Asn Tyr Thr Val Glu Glu Ser Ala Ser Trp Trp 130 135 140

Ala Thr Cys Arg Thr Pro Arg Pro Gly Trp Pro Arg Pro Pro Arg Arg 145 150 155 160

Trp Thr Ala Pro Leu Arg Asn Cys Trp Arg Leu Arg Pro Ser Ser Cys 165 170 175

Val Lys Ser Val Lys Arg Ala Val Arg Cys Ser 180 185

<210> 1297

65

<211> 346

<212> PRT

<213> Homo sapiens

<400> 1297

Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp
1 5 10 15

Val Leu Gln Gln Ala Asn Arg Ser Ala Gln Gln Leu Thr Ala Thr Gly 20 25 30

Gln Ser Leu Met Gln Ser Gln Arg Leu Ala Lys Ser Val Ser Gln Ala 35 40 45

Leu Val Gly Ser Pro Gln Ala Phe Pro Asp Val Val Glu Ser Ser Gly 50 55 60

.Val Leu Ala Arg Asn Val Arg Ala Leu Asn Gly Gly Asp Asn Glu Leu 65 70 75 80

Asp Val Gln Ala Leu Gly Glu Pro Phe Arg Pro Glu Leu Asp Ala Ile 85 90 95

Thr Pro Leu Val Glu Arg Ala Glu Arg Asn Ala Gly Val Val Met Gly 100 105 110

Gln Gln Lys Ile Leu Thr Gln Val Gly Asp Ala Leu Arg Thr Ile Asn 115 120 125

Arg Gln Ser Ser Asp Leu Leu Glu Ile Ala Glu Thr Val Ser Ser Leu 130 135 140

Lys Leu Gln Gln Asn Ala Pro Ala Ser Glu Ile Ser Ala Ala Gly Gln 145 150 155 160 Leu Val Met Leu Thr Gln Arg Ile Gly Lys Ser Ala Asn Glu Phe Gln 165 170 175

Thr Thr Glu Gly Val Ser Pro Glu Ala Val Phe Leu Leu Gly Lys Asp 180 185 190

Leu Asn Ser Phe Lys Glu Ile Ala Arg Gly Met Leu Asp Gly Ser Ala 195 200 205

Asp Leu Arg Leu Ala Ala Thr Arg Asp Ala Gln Thr Arg Glu Gln Leu 210 215 220

Glu Ser Leu Ile Lys Leu Tyr Glu Gln Thr Arg Thr Gln Ala Gly Ala 225 230 235 240

Ile Leu Gly Asn Leu Gln Gly Leu Val Ser Ala Arg Glu Ala Gln Ser 245 250 255

Ala Ile Leu Ala Asp Ser Glu Pro Leu Arg Arg Gln Leu Glu Gly Leu 260 265 270

Gln Ser Lys Leu Ser Ala Gln Ser Gly Met Gly Ala Ala Ser Ser Leu 275 280 285

Arg Ser Pro Ser Pro Val Ser Ser Ser Cys Cys Ala Ala Trp Val Phe 290 295 300

Arg Ala Cys Ser Cys Trp Thr Ala Ala Ala Ala Lys Pro Arg Pro Lys 305 310 315 320

His Ser Ser Val Met Pro Ser Ala Arg Asn Arg Lys Pro Ser Ala Ser 325 330 335

Thr Thr Pro Thr Arg Arg Pro Phe Cys Asp 340 345

<210> 1298

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1298

Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala 1 10 15

Val Leu Pro Leu Ser Ser Gln Ser Met Pro Phe Leu Gln 20 25

<210> 1299

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1299

Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala

10

Val Leu Pro Leu Ser Ser Gln Ser Met Pro Phe Leu Gln 20 25

5

<210> 1300

<211> 299

<212> PRT

<213> Homo sapiens

<400> 1300

Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile 1 5 10 15

Leu Ala Ile Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
20 25 30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu 35 40 45

Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe 50 55 60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr 65 70 75 80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
85 90 95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser 100 105 110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val 115 120 125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr 130 135 140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro
145 150 155 160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn 165 170 175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro 180 185 190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly 195 200 205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser 210 215 220

Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val 225 230 235 240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly 245 250 255

Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly 260 265 270

Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu 275 280 285

Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val 290 295

<210> 1301

<211> 299

<212> PRT

<213> Homo sapiens

<400> 1301

Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Cys Leu Phe Ile 1 5 10 15

Leu Ala Ile Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His 20 25 30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu 35 40 45

Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe 50 55 60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr 65 70 75 80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe 85 90 95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser 100 105 110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val 115 120 125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr 130 135 140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro 145 150 155 160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn 165 170 175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro 180 185 190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly 195 200 205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser 210 215 220 Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val 225 230 235 240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Île Leu Val Phe Gly 245 250 255

Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly 260 265 270

Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu 275 280 285

Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val 290 295

<210> 1302

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1302

Ala Arg Ala Lys Pro Glu Arg Pro Ala Gly Trp Ala Glu Ser Val Leu 1 5 10 15

Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala Phe Ser Arg Thr Val Gly
20 25 30

Thr Ile Gln His Cys Leu His Leu Thr Ser Val Tyr Thr His Phe Leu 35 40 45

Pro Gln Arg Gly Arg Pro Glu Val Thr Thr Met Pro Leu Gly Leu Gly 50 55 60

Met Thr Val Asp Tyr Ile Phe Phe Ser Ala Glu Ser Cys Glu Asn Gly 65 70 75 80

Asn Arg Thr Asp His Arg Leu Tyr Arg Asp Gly Thr Leu Lys Leu Leu 85 90 95

Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile Leu Trp Ala Ala Asn Gly
100 105 110

Leu Pro Asn Pro Phe Cys Ser Ser Asp His Leu Cys Leu Leu Ala Ser 115 120 125

Phe Gly Met Glu Val Thr Ala Pro 130 135

<210> 1303

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1303
Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
  1
Phe Arg Ala Leu Ser Xaa Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
                     70
                                          75
 65
Leu Ile Xaa Lys Gly Leu Ala Gln Ser Ser Leu Xaa Leu Leu Xaa Asp
Asn Pro Gly Glu
            100
<210> 1304.
<211> 670
<212> PRT
<213> Homo sapiens
<400> 1304
Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Pro Ala Thr Arg Leu
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Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu 20 25 30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala 35 40 45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp 50 55 60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro

75

70

Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp 90 Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg 105 Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro 120 Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly 135 Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp 150 Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu 170 Asp Pro Ala Val Leu Ala Trp Ser Ile Ala Pro Glu Pro Val Pro Gln 185 180 Glu Glu Ala Ser Ile Trp Pro Phe Glu Gly Leu Gly Gln Leu Gln Pro 200 Pro Ala Val Glu Ile Pro Tyr His Glu Ile Leu Trp Arg Glu Trp Glu Asp Phe Ser Thr Gln Pro Asp Ala Gln Gly Leu Lys Ala Gly Asp Gly 235 Pro Gln Phe Gln Phe Thr Leu Met Ser Tyr Asn Ile Leu Ala Gln Asp Leu Met Gln Gln Ser Ser Glu Leu Tyr Leu His Cys His Pro Asp Ile Leu Asn Trp Asn Tyr Arg Phe Val Asn Leu Met Gln Glu Phe Gln His 275 Trp Asp Pro Asp Ile Leu Cys Leu Gln Glu Val Gln Glu Asp His Tyr Trp Glu Gln Leu Glu Pro Ser Leu Arg Met Met Gly Phe Thr Cys Phe 305 310 315 Tyr Lys Arg Arg Thr Gly Cys Lys Thr Asp Gly Cys Ala Val Cys Tyr 330 Lys Pro Thr Arg Phe Arg Leu Leu Cys Ala Ser Pro Val Glu Tyr Phe 340 345 Arg Pro Gly Leu Glu Leu Leu Asn Arg Asp Asn Val Gly Leu Val Leu 360 Leu Leu Gln Pro Leu Val Pro Glu Gly Leu Gly Gln Val Ser Val Ala 375 380 Pro Leu Cys Val Ala Asn Thr His Ile Leu Tyr Asn Pro Arg Arg Gly DSB33245.041201

Asp	Val	Lys	Leu	Ala 405	Gln	Met	Ala	Ile	Leu 410	Leu	Ala	Glu	Val	Asp 415	Lys
Val	Ala	Arg	Leu 420	Ser	Asp	Gly	Ser	His 425	Cys	Pro	Ile	Ile	Leu 430	Cys	Gly
Asp	Ļeu	Asn 435	Ser	Val	Pro	Asp	Ser 440	Pro	Leu	Tyr	`Asn	Phe 445	Ile	Arg	Asp
Gly	Glu 450	Leu	Gln	Tyr	His	Gly 455	Met	Pro	Ala	Trp	Lys 460	Val	Ser	Gly	Gln
Glu 465	Asp	Phe	Ser	His	Gln 470	Leu	Tyr	Gln	Arg	Lys 475	Leu <sub>.</sub>	Gln	Ala	Pro	Leu 480
Trp	Pro	Ser	Ser	Leu 485	Gly	Ile	Thr	Asp	Cys 490	Cys	Gln	Tyr	Val	Thr 495	Ser
Cys	His	Pro	Lys 500	Arg	Ser	Glu	Arg	Arg 505	Lys	Tyr	Gly	Arg	Asp 510	Phe	Leu
Leu	Arg	Phe 515	Arg	Phe	Cys	Ser	Ile 520	Ala	Cys	Gln	Arg	Pro 525	Val	Gly	Leu
Val	Leu 530	Met	Glu	Gly	Val	Thr 535	Asp	Thr	Lys	Pro	Glu 540	Arg	Pro	Ala	Gly
Trp 545	Ala	Glu	Ser	Val	Leu 550	Glu	Glu	Asp	Ala	Ser 555	Glu	Leu	Glu	Pro	Ala 560
Phe	Ser	Arg	Thr	Val 565	Gly	Thr	Ile	Gln	His 570	Cys	Leu	His	Leu	Thr 575	Ser
Val	Tyr	Thr	His 580	Phe	Leu	Pro	Gln	Arg 585	Gly	Arg	Pro	Glu	Val 590	Thr	Thr
Met	Pro	Leu 595	Gly	Leu	Gly	Met	Thr 600	Val	Asp	Tyr	Ile	Phe 605	Phe	Ser	Ala
Glu	Ser 610	Cys	Glu	Asn	Gly	Asn 615	Arg	Thr	Asp	His	Arg 620	Leu	Tyr	Arg	Asp
Gly 625	Thr	Leu	Lys	Leu	Leu 630	Gly	Arg	Leu	Ser	Leu 635	Leu	Ser	Glu	Glu	Ile 640
Leu	Trp	Ala	Ala	Asn 645	Gly	Leu	Pro	Asn	Pro 650	Phe	Cys	Ser	Ser	Asp 655	His
T OU	Cvc	T 011	Lou	7. T. a.	Sar	Dhe	G1v	Mot	G1 <sub>11</sub>	₩a1	Thr	Δla	Pro		

<210> 1305

<211> 228

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids .
<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1305
Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val
                                                          15
 1
Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val
Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly
Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile
Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys
Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile
Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His
                                105
Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala
                            120
Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr
                        135
Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr
Leu Cys Arg Xaa Ser Leu Xaa Leu Leu Leu Glu Ala Tyr Phe Cys Gly
Lys Val Gly Arg Asn Asn His Lys Phe Ile Ser Gln Leu Met Cys Asp
```

190

Tyr Phe Phe Lys.Cys Met Thr Xaa Lys Ser Gly Ile Gly Xaa Phe Glu 195 200 205

Leu Gly Asp Asp His Phe Val Lys Leu Asn Val Gly Xaa Leu Ala Phe 210 215 220

Leu Phe Lys Phe 225

<210> 1306

<211> 170

<212> PRT

<213> Homo sapiens

<400> 1306

CSELEE . C FEED

Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val 1 5 10 15

Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val 20 25 30

Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly
35 40 45

Arg Leu Clu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile
50 60

Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys 65 70 75 80

Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile 85 90 95

Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His 100 105 110

Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala 115 120 125

Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr 130 135 . 140

Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr 145 150 155 160

Leu Cys Arg Ser Ser Leu Glu Ser Val Ser 165 170

<210> 1307

<211> 149

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly
Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Pro Ala Leu Leu Leu
             20
Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg
Asp Cys Tyr Glu Val Leu Gly Val Ser Arg Ser Ala Gly Lys Ala Glu
Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg
Tyr Arg Pro Gln Pro Gly Xaa Glu Gly Pro Gly Arg Thr Pro Xaa Ser
Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Xaa Tyr Glu Thr Leu Lys
                                105
Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu
Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Leu
Arg Trp Met Leu Glu
145
<210> 1308
<211> 360
<212> PRT
<213> Homo sapiens
<400> 1308
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Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly
1 10 15

Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu 20 25 30

Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg

35

Asp	Cys	Tyr	Glu	Val	Leu	Gly	Val	Ser	Arg	Ser	Ala	Gly	Lys	Ala	Glu
	50					55					60				

Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg 65 70 75 80

Tyr Arg Pro Gln Pro Gly Asp Glu Gly Pro Gly Arg Thr Pro Gln Ser 85 90 95

Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Ala Tyr Glu Thr Leu Lys
100 105 110

Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu 115 120 125

Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Pro 130 135 140

Lys Val Asp Val Arg Val Val Ile Leu Val Ser Val Cys Ala Ile Ser 145 150 155 160

Val Phe Gln Phe Phe Ser Trp Trp Asn Ser Tyr Asn Lys Ala Ile Ser 165 170 175

Tyr Leu Ala Thr Val Pro Lys Tyr Arg Ile Gln Ala Thr Glu Ile Ala 180 185 190

Lys Gln Gln Gly Leu Leu Lys Lys Ala Lys Glu Lys Gly Lys Asn Lys 195 200 205

Lys Ser Lys Glu Glu Ile Arg Asp Glu Glu Glu Asn Ile Ile Lys Asn 210 215 220

Ile Ile Lys Ser Lys Ile Asp Ile Lys Gly Gly Tyr Gln Lys Pro Gln 225 230 235 240

Ile Cys Asp Leu Leu Phe Gln Ile Ile Leu Ala Pro Phe His Leu 245 250 255

Cys Ser Tyr Ile Val Trp Tyr Cys Arg Trp Ile Tyr Asn Phe Asn Ile 260 265 270

Lys Gly Lys Glu Tyr Gly Glu Glu Glu Arg Leu Tyr Ile Ile Arg Lys 275 280 285

Ser Met Lys Met Ser Lys Ser Gln Phe Asp Ser Leu Glu Asp His Gln 290 295 300

Lys Glu Thr Phe Leu Lys Arg Glu Leu Trp Ile Lys Glu Asn Tyr Glu 305 310 315 320

Val Tyr Lys Gln Glu Gln Glu Glu Glu Leu Lys Lys Lys Leu Ala Asn 325 330 335

Asp Pro Arg Trp Lys Arg Tyr Arg Arg Trp Met Lys Asn Glu Gly Pro 340 345 350

Gly Arg Leu Thr Phe Val Asp Asp

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<210> 1309
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<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1309

Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu 1 5 10 15

Phe Leu Ile Leu Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser 20 25 30

Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser 40 45

Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr

Asp Leu Thr Thr Gly Pro Thr Ser Ser Pro Ala Pro Leu Gly Ile Leu 65 70 75 80

His Thr Ala Val Arg Val Thr His Leu His Thr Leu Thr Leu Met Gly 85 90 95

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Asn Leu Gly
100 105 110

Leu Val Phe Arg Lys Ala Arg Gly Ser Xaa Phe Pro Thr Leu Gly Arg 115 120 125

<210> 1310

<211> 112

<212> PRT

<213> Homo sapiens

<400> 1310

Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu

1 5 10 15

Phe Leu Ile Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser 20 25 30

Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser 35 40 45

Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr

50 55 60

Asp Leu Thr.Thr Gly Pro Thr Ser Ser Pro Ala Pro Leu Gly Ile Leu 65 70 75 80

His Thr Ala Val Arg Val Thr His Leu His Thr Leu Thr Leu Met Gly 85 90 95

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Thr Leu Ala 100 105 110

<210> 1311

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1311

Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly
1 5 10 15

Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe 20 25 30

Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp. Leu His Cys Asn 50 55 60

Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile 65 70 75 80

Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly 85 90 95

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro 100 105

<210> 1312

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1312

Asn His Ile Gln His Lys Asn Tyr Phe Trp Leu Asn Ser Thr Glu Lys

1 10 15

Tyr Phe Asn Leu Pro Val Glu Ile Leu Val Met Glu Arg Cys Gln Thr
20 25 30

Val Leu Asn Gly Arg Thr Ser Lys Ser Glu Ala Thr Val Pro Thr Thr 35 40 45

Arg Gly Leu Leu Tyr Cys Ser Thr Phe Ser Ala Leu Tyr Phe Leu Ala 50 60

Glu Ala Ser Pro Trp Ser Ala Met Tyr Lys Leu Gly Tyr 65 70 75

<210> 1313

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1313

Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly
1 5 10 15

Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe 20 25 30

Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala 35 40 45

Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn 50 60

Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile
65 70 75 80

Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Trp Tyr Gly 85 90 95

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro 100 105

<210> 1314

<211> 176

<212> PRT

<213> Homo sapiens

<400> 1314

Met Ser Ala Gly Gly Ala Ser Val Pro Pro Pro Pro Asn Pro Ala Val 1 5 10 15

Ser Phe Pro Pro Pro Arg Val Thr Leu Pro Ala Gly Pro Asp Ile Leu 20 25 30

Arg Thr Tyr Ser Gly Ala Phe Val Cys Leu Glu Ile Leu Phe Gly Gly

Leu Val Trp Ile Leu Val Ala Ser Ser Asn Val Pro Leu Pro Leu Leu 50 55 60

Gln Gly Trp Val Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu 65 70 75 80

Leu Phe Leu Gly Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala 85 90 95

- Asn Trp Asn Phe Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe 100 105 110
- Tyr Phe Gly Ala Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp 115 120 125
- Leu His Cys Asn Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn 130 135 140
- Gln Tyr Asn Ile Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr 145 150 155 160
- Ala Cys Tyr Gly Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro 165 170 175

<210> 1315

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1315

Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe 1 5 10 15

Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile 20 25 30

Ser Val Pro Ala Leu Leu Gly Tyr Leu Gln Glu Val Cys Arg Ala Arg 35 40 45

Leu Pro Asp Ser Glu Leu Met Arg Arg Lys Tyr His Ser Val Arg Gln 50 60

Glu Asp Leu Gln Arg Val Arg Leu Ser Arg Pro Glu Ala Val Ala Glu 65 70 75 80

Val Lys Ser Phe Leu Ile Gln Leu Glu Ala Phe Leu Lys Pro Pro Val 85 90 95

Leu His Met Leu Lys Pro Pro 100

<210> 1316

<211> 237

<212> PRT

<213> Homo sapiens

<400> 1316

Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe 1 5 10 15

Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile

Ser Val Pro Ala Leu Leu Gly Tyr Leu Gln Glu Val Cys Arg Ala Arg 35 40 45

Leu Pro Asp Ser Glu Leu Met Arg Arg Lys Tyr His Ser Val Arg Gln 50 55 60

Glu Asp Leu Gln Arg Val Arg Leu Ser Arg Pro Glu Ala Val Ala Glu 65 70 75 80

Val Lys Ser Phe Leu Ile Gln Leu Glu Ala Phe Leu Ser Arg Leu Cys
85 90 95

Cys Thr Cys Glu Ala Ala Tyr Arg Val Leu His Trp Glu Asn Pro Val 100 105 110

Val Ser Ser Gln Phe Tyr Gly Ala Leu Leu Gly Thr Val Cys Met Leu 115 120 125

Tyr Leu Leu Pro Leu Cys Trp Val Leu Thr Leu Leu Asn Ser Thr Leu 130 135 140

Phe Leu Gly Asn Val Glu Phe Phe Arg Val Val Ser Glu Tyr Arg Ala 145 150 155 160

Ser Leu Gln Gln Arg Met Asn Pro Lys Gln Glu Glu His Ala Phe Glu 165 170 175

Ser Pro Pro Pro Pro Asp Val Gly Gly Lys Asp Gly Leu Met Asp Ser 180 185 190

Thr Pro Ala Leu Thr Pro Thr Glu Asp Leu Thr Pro Gly Ser Val Glu
195 200 205

Glu Ala Glu Glu Ala Glu Pro Asp Glu Glu Phe Lys Asp Ala Ile Asp 210 215 220

Glu Asp Asp Glu Gly Ala Pro Cys Pro Ala Leu Phe Leu 225 230 235

<210> 1317

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<222> (64)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1317

Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu 1 5 10 15

Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg
20 25 30

Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly 35 40 45

Ala Pro Ala Ala Pro Xaa Pro Pro Ala Leu Glu Leu Ala Xaa Gly Xaa 50 55 60

Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly Gly 65 70 75 80

Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Xaa 85 90 95

His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu 100 105 110

Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe 115 120 125

Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu 130 135 140

Cys Cys Ala Asp Gly 165

<210> 1318

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1318

Ala Ser Lys Arg Met Pro Ala His His Ile Leu Thr Leu Gly Gly Cys

1 10 15

Cys Thr Arg Ile Leu Leu Met Leu Thr Ser Leu Gly Val Gly Phe Arg
20 25 30

Ile Ala Ser Leu Arg Lys Asp Phe Arg Thr Asn Trp Gly Leu His Lys
35 40 45

Lys Thr Tyr Leu Ile Ile Arg Val Leu Thr Ala Cys Ile Ser Gln Leu

His Pro Arg Thr Pro Leu Ser Phe Ile Pro Pro Asn Gln Leu Gln Val 70

Thr Arg Leu Tyr Ser Glu Ser Lys Phe Val Ile Lys Glu Gln Arg Leu

Ala Thr Thr Arg Thr Cys Arg Arg Thr Val Gly Thr Arg Lys Thr His

Ser Lys Lys Pro Arg Pro Gly Thr Val Val Lys Pro Val Ile Pro Thr

Leu Trp Glu Thr Glu Val Gly Val Ser Ile Glu Pro Arg Arg Ser Arg 135

Ser Ala Trp Glu Thr Gln Gly Gly Pro His Arg Tyr Lys Ile Phe 150

<210> 1319

<211> 380

<212> PRT

<213> Homo sapiens

<400> 1319

Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu

Ala Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg

Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly

Ala Pro Ala Ala Pro Ser Pro Pro Ala Leu Glu Leu Ala Arg Gly Ser

Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly 70

Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Glu 85

His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu 105

Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe

Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu 135

Leu Leu Pro Pro Ala Ala Gly Phe Lys Cys Lys Val Ile Phe His Asp 145

Val Ala Val Leu Thr Asp Lys Leu Phe Pro Ile Val Glu Ala Met Gln 165 ~ 170

Lys His Phe Ser Ala Gly Leu Gly Thr Tyr Tyr Ser Asp Ser Ile Phe 180 185 190

Phe Leu Ser Val Ala Met His Gln Ile Met Pro Lys Glu Ile Leu Gln 195 200 205

Ile Ile Gln Leu Asp Leu Asp Leu Lys Phe Lys Thr Asn Ile Arg Glu 210 215 220

Leu Phe Glu Glu Phe Asp Ser Phe Leu Pro Gly Ala Ile Ile Gly Ile 225 230 235 240

Ala Arg Glu Met Gln Pro Val Tyr Arg His Thr Phe Trp Gln Phe Arg 245 250 255

His Glu Asn Pro Gln Thr Arg Val Gly Gly Pro Pro Glu Gly Leu 260 265 270

Pro Gly Phe Asn Ser Gly Val Met Leu Leu Asn Leu Glu Ala Met Arg 275 280 285

Gln Ser Pro Leu Tyr Ser Arg Leu Leu Glu Pro Ala Gln Val Gln Gln 290 295 300

Leu Ala Asp Lys Tyr His Phe Arg Gly His Leu Gly Asp Gln Asp Phe 305 310 315 320

Phe Thr Met Ile Gly Met Glu His Pro Lys Leu Phe His Val Leu Asp 325 330 335

Cys Thr Trp Asn Arg Gln Leu Cys Thr Trp Trp Arg Asp His Gly Tyr 340 345 350

Ser Asp Val Phe Glu Ala Tyr Phe Arg Cys Glu Gly His Val Lys Ile 355 360 365

Tyr His Gly Asn Cys Asn Thr Pro Ile Pro Glu Asp 370 375 380

<210> 1320

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1320

Leu Glu Ser Tyr Ser Ser Val Arg Glu Leu Leu Val Ser Val Arg Phe

1 5 10 15

Tyr Val Val Cys Lys Val Arg Gly Ser Val Leu Phe Pro Tyr Leu Gly 20 25 30

Lys Ser Thr Ala Gly Val Glu Gly Leu Tyr Val Pro Phe Asn Val Thr 35 40 45

Val Leu Lys Asp Leu Ser Arg Glu Ser Glu Ser Phe Ala Glu Cys Asp 50 55 60

<210> 1321

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1321

Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala 1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys 20 25 30

Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro 35 40 45

Gly Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg 50 55 60

Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile 65 70 75 80

Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg 85 90 95

<210> 1322

<211> 234

<212> PRT

<213> Homo sapiens

<400> 1322

Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala 1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
20 25 30

Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro 35 40 45

Arg Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala 50 55 60

Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Ile Glu Glu Gly Asp 65 70 75 80

Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile 85 90 95

Asp Pro Ser Lys Pro Glu Ser Ile Leu Lys Met Thr Lys Lys Gly Lys 100 105 110

Thr Leu Met Met Phe Val Thr Val Ser Gly Ser Pro Thr Glu Lys Glu 115 120 125

```
Thr Glu Glu Ile Thr Ser Leu Trp Gln Gly Ser Leu Phe Asn Ala Asn 130 135 140
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Tyr Asp Val Gln Arg Phe Ile Val Gly Ser Asp Arg Ala Ile Phe Met 145 150 155 160

Leu Arg Asp Gly Ser Tyr Ala Trp Glu Ile Lys Asp Phe Leu Val Gly 165 170 175

Gln Asp Arg Cys Ala Asp Val Thr Leu Glu Gly Gln Val Tyr Pro Gly 180 185 190

Lys Gly Gly Gly Ser Lys Glu Lys Asn Lys Thr Lys Gln Asp Lys Gly
195 200 205

Lys Lys Lys Glu Gly Asp Leu Lys Ser Arg Ser Ser Lys Glu Glu 210 215 220

Asn Arg Ala Gly Asn Lys Arg Glu Asp Leu 225 230

<210> 1323

<211> 15

<212> PRT

<213> Homo sapiens

<400> 1323

Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Phe
1 5 10 15

<210> 1324

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1324

Lys Tyr Xaa Lys His Pro Ser Lys Ser Phe Glu Leu Thr Leu Val Leu 1 5 10 15

Arg Lys Leu Ser Leu His Asn Gln Pro Pro Gly Lys Thr Glu Cys His 20 25 30

Leu Leu Lys Ser Lys Cys Cys Val Ile Ile Thr Leu Gln Thr Lys Trp  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Arg Tyr Tyr Leu Phe Cys Lys Gln Gln Thr Lys Gln Asn Ser 50 55 60

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<210> 1325
<211> 15
<212> PRT
<213> Homo sapiens
<400> 1325
Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Leu Phe
        . 5
                                     1.0
<210> 1326
<211> 228
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (209)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1326
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
                                     10
Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
                                 25
             20
Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
                             40
```

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg 50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu 65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu 85 90 95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro 100 105 110

Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu 115 120 125

Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro 130 135 140

Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly 145 150 155 160

Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala 165 170 175

Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys 180 185 190

Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu 195 200 205

Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu 210 215 220

Pro Phe Thr Asn 225

<210> 1327

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1327

Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser 1 5 10 15

Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr 20 25 30

Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe 35 . 40 45

Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser 50 60

Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu 65 70 75 80

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<210> 1328
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<211> 174

<212> PRT

<213> Homo sapiens

<400> 1328

Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val 1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe 20 25 30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg 50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu 65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu 85 90 95

Thr His Leu Clu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro 100 105 110

Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu 115 120 125

Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro 130 135 140

Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly 145 150 155 160

Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro 165 170

<210> 1329

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1329

Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val 1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe 20 25 30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
35 40 45

```
Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg 50 55 60
```

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu 65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
85 90 95

Thr His Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro 100 105 110

Ala Gln Ser 115

<210> 1330

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1330

Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys 1 5 10 15

Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu

Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu 35 40 45

Gly Ser Ser Asn Pro Xaa Thr Xaa Ala Pro Lys 50 55

<210> 1331

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1331

Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys
1 5 10 15

Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu 20 25 30

Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu 35 40 45

Gly Ser Ser Asn Pro Pro Thr Ser Ala Pro Lys 50

<210> 1332

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1332

Gly Ser Phe Leu Ser Pro Trp Gly Pro Ile Leu Trp Gly Leu Gly Ala 1 5 10 15

Gly Val Leu Met Gly Asp Ala Leu Gln Gly Arg Glu Gly Arg Met Gln 20 25 30

Ala Thr Val Gly Ala Gly Pro Glu Gly Ser Glu Thr Val Ala Val Gln 35 40 45

Val Cys Val Ile Arg Glu Ala Val Val Gly Glu Glu Val Ser Asp Cys 50 55 60

Val Ala Pro Leu Cys Gly Val Gly Gly Gln Gly Gly Ala Ala Lys Glu 65 70 75 80

Ala Arg Lys Met Gly Gly Gly Trp Asp Gly Leu Gly Ser His Ile His 85 90 95

Val Leu Asp Phe 100

<210> 1333

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1333

Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr
1 5 10 15

Ile Ala Ala Leu Ser Val Gln Ser Pro Phe Thr Arg Ser Ala Gln
20 25 30

Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln 35 40 45

Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val 50 60

Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly 65 70 75 80

Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Phe Gly Ala Ser Ser 85 90 95

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<210> 1334
<211> 163
<212> PRT
<213> Homo sapiens
<400> 1334
Ala Leu Ala Arg Al
1
Ala Gly Ala Thr Hi
20
Gly Arg Ala Trp Se
```

Ala Leu Ala Arg Ala Ser Arg Thr Asp Asp Leu His Pro Leu Ala Leu
1 5 10 15

Ala Gly Ala Thr His Arg Pro Cys Pro Glu Asp Gln Glu Pro Lys Ala 20 25 30

Gly Arg Ala Trp Ser Ala Thr Ser Phe Cys Leu Pro Val Pro Cys Gly 35 40 45

Val Ser Val Leu Leu Ser Leu Ser Leu Phe Leu Ser Leu Cys Gly Tyr 50 60 ,

Val Ser Cys Tyr Phe Ser Leu Ser Cys Ser Tyr Leu Cys Leu Gly His 65 70 75 80

Leu His Pro Val Val Thr Gln Gly Cys His Thr Leu Gly Phe Ser Gly 85 90 95

Gly Asp Ser Thr Gly Ala Thr Cys Leu His Pro Arg Leu Ala Val Ser 100 105 110

Ala Cys Gln Ser Pro Cys Leu Ser Leu Cys Leu Ser Leu Cys Leu Ser

His Trp Gln Gly Cys Gly Val Lys Thr Asp Leu Cys Ile Phe Ile Asn 130 135 140

Leu Gly Gly Leu Pro Gly Gly Gly Lys Thr Gly Phe Ser Lys Gly Gln 145 150 155 160

Glu Arg Thr

```
<210> 1335
<211> 552
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

- IleAlaAlaAlaLeuSerValGlnSerProPheThrArgSerAlaGlnSerSerProGluCysAlaAlaAlaArgArgProLeuGluSerAspGlnGlyAspProPheThrLeuPheAspValPheAspAlaTrpValGlnVal
- Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly 65 70 75 80
- Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Leu Arg Arg Gln Phe 85 90 95
- Lys Glu Leu Leu Glu Asp His Gly Leu Leu Ala Gly Ala Gln Ala Ala 100 105 110
- Gln Val Gly Asp Ser Tyr Ser Arg Leu Gln Gln Arg Arg Glu Arg Arg 115 120 125
- Ala Leu His Gln Leu Lys Arg Gln His Glu Glu Gly Ala Xaa Cys Arg 130 135 140
- Arg Lys Val Leu Arg Leu Gln Glu Glu Gln Asp Gly Gly Ser Ser Asp 145 150 155 160
- Glu Asp Arg Ala Gly Pro Ala Pro Pro Gly Ala Ser Asp Gly Val Asp 165 170 175
- Ile Gln Asp Val Lys Phe Lys Leu Arg His Asp Leu Ala Gln Leu Gln
  180 185 190
- Ala Ala Ser Ser Ala Gln Asp Leu Ser Arg Glu Gln Leu Ala Leu 195 200 205
- Leu Lys Leu Val Leu Gly Arg Gly Leu Tyr Pro Gln Leu Ala Val Pro 210 215 220
- Asp Ala Phe Asn Ser Ser Arg Lys Asp Ser Asp Gln Ile Phe His Thr 225 230 235 240
- Gln Ala Lys Gln Gly Ala Val Leu His Pro Thr Cys Val Phe Ala Gly 245 250 255
- Ser Pro Glu Val Leu His Ala Gln Glu Leu Glu Ala Ser Asn Cys Asp 260 265 270
- Gly Ser Arg Asp Lys Asp Lys Met Ser Ser Lys His Gln Leu Leu 275 280 285
- Ser Phe Val Ser Leu Leu Glu Thr Asn Lys Pro Tyr Leu Val Asn Cys 290 295 300
- Val Arg Ile Pro Ala Leu Gln Ser Leu Leu Leu Phe Ser Arg Ser Leu 305 310 315 320
- Asp Thr Asn Gly Asp Cys Ser Arg Leu Val Ala Asp Gly Trp Leu Glu 325 330 335

Leu Gln Leu Ala Asp Ser Glu Ser Ala Ile Arg Leu Leu Ala Ala Ser 340 345 350

Leu Arg Leu Arg Ala Arg Trp Glu Ser Ala Leu Asp Arg Gln Leu Ala 355 360 365

His Gln Ala Gln Gln Gln Leu Glu Glu Glu Glu Glu Asp Thr Pro Val 370 380

Ser Pro Lys Glu Val Ala Thr Leu Ser Lys Glu Leu Leu Gln Phe Thr 385 390 395 400

Ala Ser Lys Ile Pro Tyr Ser Leu Arg Arg Leu Thr Gly Leu Glu Val 405 410 415

Gln Asn Met Tyr Val Gly Pro Gln Thr Ile Pro Ala Thr Pro His Leu 420 425 430

Pro Gly Leu Phe Gly Ser Ser Thr Leu Ser Pro His Pro Thr Lys Gly 435 440 445

Gly Tyr Ala Val Thr Asp Phe Leu Thr Tyr Asn Cys Leu Thr Asn Asp  $450 \,$  455  $\,$  460

Thr Asp Leu Tyr Ser Asp Cys Leu Arg Thr Phe Trp Thr Cys Pro His 465 470 475 480

Cys Gly Leu His Ala Pro Leu Thr Pro Leu Glu Arg Ile Ala His Glu
485 490 495

Asn Thr Cys Pro Gln Ala Pro Gln Asp Gly Pro Pro Gly Ala Glu Glu 500 505 510

Ala Ala Leu Glu Thr Leu Gln Lys Thr Ser Val Leu Gln Arg Pro Tyr 515 520 525

His Cys Glu Ala Cys Gly Lys Asp Phe Leu Phe Thr Pro Thr Glu Val 530 535 540

Leu Arg His Arg Lys Gln His Val 545 550

<210> 1336

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1336

Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg
1 5 10 15

Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser 20 25 30

Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu 35 40 45

Thr Ser Leu Ala Leu Phe Trp Leu Thr Thr Leu Val Pro Ser Ile Thr 50 55 60

Asn Ile Thr Arg Val Phe Thr Thr Leu Leu Arg Thr Leu Met 65 70 75

<210> 1337

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1337

Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg

1 10 15

Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser 20 25 30

Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu
35 40 45

Thr Ser Leu Ala Leu Phe Trp Leu Thr Thr Leu Val Pro Ser Ile Thr 50 55 60

Asn Ile Thr Arg Val Phe Thr Thr Leu Leu Arg Thr Leu Met 65 70 75

<210> 1338

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1338

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp 1 5 10 15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala
20 25 30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu 35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr 50 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr 65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr 85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr 100 105 110

Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln 115 120 125

```
Thr Ile Thr Gly Ser Asp Pro Arg Lys Pro Ser Leu Thr Pro Phe Ala
130 135 140
```

Pro Met Thr Ala Leu Lys Arg Gln Arg His Ser Gln Trp Thr Tyr 145 .155

```
<210> 1339
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<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222>. (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1339

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Cys Trp 1 5 10 15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala 20 25 30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu 35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr
50 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr 65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr 85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr 100  $\phantom{000}$  105  $\phantom{000}$  110

Ser Xaa Ala Ser Gly Ser Pro Glu Gly Ala Xaa Met Thr Thr Val Gln 115 120 125

Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Xaa 130 135 140

Thr Asp Asp Ser Ser 145

<sup>&</sup>lt;211> 149

<sup>&</sup>lt;212> PRT

<210> 1340

<211> 595

<212> PRT

<213> Homo sapiens

<400> 1340

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Cys Trp  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala 20 25 30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu
35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr 50 55 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr 65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr 85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr 100 105 110

Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln
115 120 125

Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Cys 130 135 140

Thr Asp Asp Ser Ser Glu Glu Ala Lys Thr Leu Thr Met Asp Ile Leu 145 150 155 160

Thr Leu Ala His Thr Ser Thr Glu Ala Lys Gly Leu Ser Ser Glu Ser 165 170 175

Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala 180 185 190

Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro 195 200 205

Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val 210 215 220

Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro 225 230 235 240

His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser 245 250 255

Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser 260 265 270

Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Trp Ser Pro

275 280 285

Gly Ser Asp Val Thr Leu Leu Ala Glu Ala Leu Val Ser Val Thr Asn 295 Ile Glu Val Ile Asn Cys Ser Ile Thr Glu Ile Glu Thr Thr Thr Ser 315 310 Ser Ile Pro Gly Ala Ser Asp Thr Asp Leu Ile Pro Thr Glu Gly Val Lys Ala Ser Ser Thr Ser Asp Pro Pro Ala Leu Pro Asp Ser Thr Glu Ala Lys Pro His Ile Thr Glu Val Thr Ala Ser Ala Glu Thr Leu Ser Thr Ala Gly Thr Thr Glu Ser Ala Ala Pro Asp Ala Thr Val Gly Thr Pro Leu Pro Thr Asn Ser Ala Thr Glu Arg Glu Val Thr Ala Pro Gly 390 395 Ala Thr Thr Leu Ser Gly Ala Leu Val Thr Val Ser Arg Asn Pro Leu 405 410 Glu Glu Thr Ser Ala Leu Ser Val Glu Thr Pro Ser Tyr Val Lys Val 420 425 Ser Gly Ala Ala Pro Val Ser Ile Glu Ala Gly Ser Ala Val Gly Lys Thr Thr Ser Phe Ala Gly Ser Ser Ala Ser Ser Tyr Ser Pro Ser Glu Ala Ala Leu Lys Asn Phe Thr Pro Ser Glu Thr Pro Thr Met Asp Ile Ala Thr Lys Gly Pro Phe Pro Thr Ser Arg Asp Pro Leu Pro Ser Val 490 Pro Pro Thr Thr Asn Ser Ser Arg Gly Thr Asn Ser Thr Leu Ala Lys Ile Thr Thr Ser Ala Lys Thr Thr Met Lys Pro Pro Thr Ala Thr 520 Pro Thr Thr Ala Arg Thr Arg Pro Thr Thr Asp Val Ser Ala Gly Glu Asn Gly Gly Phe Leu Leu Leu Arg Leu Ser Val Ala Ser Pro Glu Asp 550 555 Leu Thr Asp Pro Arg Val Ala Glu Arg Leu Met Gln Gln Leu His Arg Glu Leu His Ala His Ala Pro His Phe Gln Val Ser Leu Leu Arg Val 585

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<210> 1341
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<211> 114

<212> PRT

<213> Homo sapiens

<400> 1341

Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser 1 5 10 15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu 20 25 30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg 50 55 60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser 65 70 75 80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly 85 90 95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
100 105 110

Thr Glu

<210> 1342

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1342

Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser 1 5 . 10 15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu
20 25 30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu 35 40 45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg 50 55 60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser 65 70 75 80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly
85 90 95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His

Thr Glu

<210> 1343

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1343

Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser 1 5 10 15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu 20 25 30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu 35 40 45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg
50 55 60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser 65 70 75 80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly 85 90 95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
100 105 110

Thr Glu

<210> 1344

<211> 465

<212> PRT

<213> Homo sapiens

<400> 1344

Met Glu Glu Asp Glu Glu Ala Arg Ala Leu Leu Ala Gly Gly Pro 1 5 10 15

Asp Glu Ala Asp Arg Gly Ala Pro Ala Ala Pro Gly Ala Leu Pro Ala 20 25 30

Leu Cys Asp Pro Ser Arg Leu Ala His Arg Leu Leu Val Leu Leu Leu 35 40 45

Met Cys Phe Leu Gly Phe Gly Ser Tyr Phe Cys Tyr Asp Asn Pro Ala 50 55 60

Ala Leu Gln Thr Gln Val Lys Arg Asp Met Gln Val Asn Thr Thr Lys
65 70 75 80

- Phe Met Leu Leu Tyr Ala Trp Tyr Ser Trp Pro Asn Val Val Leu Cys Phe Phe Gly Gly Phe Leu Ile Asp Arg Val Phe Gly Ile Arg Trp Gly 105 1.00 Thr Ile Ile Phe Ser Cys Phe Val Cys Ile Gly Gln Val Val Phe Ala Leu Gly Gly Ile Phe Asn Ala Phe Trp Leu Met Glu Phe Gly Arg Phe 130 Val Phe Gly Ile Gly Gly Glu Ser Leu Ala Val Ala Gln Asn Thr Tyr 155 Ala Val Ser Trp Phe Lys Gly Lys Glu Leu Asn Leu Val Phe Gly Leu 170 165 Gln Leu Ser Met Ala Arg Ile Gly Ser Thr Val Asn Met Asn Leu Met 185 Gly Trp Leu Tyr Ser Lys Ile Glu Ala Leu Leu Gly Ser Ala Gly His 195 200 205 Thr Thr Leu Gly Ile Thr Leu Met Ile Gly Gly Ile Thr Cys Ile Leu Ser Leu Ile Cys Ala Leu Ala Leu Ala Tyr Leu Asp Gln Arg Ala Glu Arg Ile Leu His Lys Glu Gln Gly Lys Thr Gly Glu Val Ile Lys Leu Thr Asp Val Lys Asp Phe Ser Leu Pro Leu Trp Leu Ile Phe Ile Ile 265 Cys Val Cys Tyr Tyr Val Ala Val Phe Pro Phe Ile Gly Leu Gly Lys Val Phe Phe Thr Glu Lys Phe Gly Phe Ser Ser Gln Ala Ala Ser Ala Ile Asn Ser Val Val Tyr Val Ile Ser Ala Pro Met Ser Pro Val Phe Gly Leu Leu Val Asp Lys Thr Gly Lys Asn Ile Ile Trp Val Leu Cys Ala Val Ala Ala Thr Leu Val Ser His Met Met Leu Ala Phe Thr Met 340 345
- 355 360 365

  Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu His
  370 375 380

Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser Leu

Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu Gly 385 390 395 400

Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg Gly
405 410 415

Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser Leu 420 425 430

Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly Asn 435 440 445

Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His Thr 450 460

Glu 465

<210> 1345

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1345

Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val Ser His 1 5 10 15

Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro Val Ala 20 25 30

Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr Gly Asn 35 40 45

Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu Cys Leu
50 60

Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly Gly Ile 65 70 75 80

Ile Trp Leu

<210> 1346

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1346

Met Ser Leu Val Ser His Leu Leu Arg Thr Phe Phe Leu Val Trp Phe

Val Gly Leu Pro Val Ala Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala
20 25 30

Asn Val Phe Thr Gly Asn Gly Gly Gly Pro Glu Pro Trp Gly Gly His

Leu Val Ser Glu Cys Leu Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu

Ala Leu Ser Gly Gly Ile Ile Trp Leu 70

55

<210> 1347

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1347

Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val Ser His 10

Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro Val Ala 25 20

Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr Gly Asn

Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu Cys Leu 55

Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly Gly Ile

Ile Trp Leu

<210> 1348

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1348

Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser

Val Leu Arg Ser Met Leu Ser Lys Val Val Arg Ser Thr Glu Gln Gly

Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr 35

Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr

Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Pro Ala 70

Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr 90

Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg 100 105 110

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<210> 1349
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<212> PRT

<213> Homo sapiens

<400> 1349

Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser 1 5 10 15

Val Leu Arg Ser Met Leu Ser Lys Val Val Arg Ser Thr Glu Gln Gly
20 25 30

Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr 35 40 45

Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr 50 55 60

Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Leu Pro Ala 65 70 75 80

Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr 85 90 95

Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg
100 105 110

<210> 1350

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1350

Met Ser Cys Ser Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met

1 10 15

Leu Phe Lys Asn Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu 20 25 30

Leu Phe Thr Val Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro 35 40 45

Ile Phe Ile Leu Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val
50 55 60

Phe Ile Gly Tyr Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser 65 70 75 80

Phe Leu Gly Ile Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met
85 90 95

Ala Phe Ile Gly Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala 100 105 110

Phe Ala Ser Thr Thr Leu Met Met Phe Leu Ala Arg Val Pro Phe Leu 115 120 125

<sup>&</sup>lt;211> 111

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Phe Thr Ile Val Pro Phe Ser Val Leu Arg Ser Met Leu Ser Lys Val
130 135 140
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Val Arg Ser Thr Glu Gln Gly Thr Leu Phe Ala Cys Ile Ala Phe Leu 145 150 155 160

Glu Thr Leu Gly Gly Val Thr Ala Val Ser Thr Phe Asn Gly Ile Tyr 165 170 175

Ser Ala Thr Val Ala Trp Tyr Pro Gly Phe Thr Phe Leu Leu Ser Ala 180 185 190

Gly Leu Leu Leu Pro Ala Ile Ser Leu Cys Val Val Lys Cys Thr 195 200 205

Ser Trp Asn Glu Gly Ser Tyr Glu Leu Leu Ile Gln Glu Glu Ser Ser 210 215 220

Glu Asp Ala Ser Asp Arg 225 230

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<210> 1351
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<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1351

Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys

1 10 15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser 20 25 30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu 50 55 60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu 65 70 75 80

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Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly 85 \ 90 \ 95
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His Asp Gln Val Val Val Leu Leu His Asp Val Arg Asp Val Xaa Val
100 105 110

Glu Glu Glu Xaa Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu 115 120 125

Arg Leu Ala Thr Gly Phe Phe His Pro 130

<210> 1352

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1352

Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys 1 10 15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser 20 25 30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys 35 40 45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu 50 60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu 65 70 75 80

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly 85 90 95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Ser Gly Cys Gln 100 105 110

Ser Leu Val Ala Gly Gln Gly His His Asn His Lys 115 120

<210> 1353

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

1

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<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1353
Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys
Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser
Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys
Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu
Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu
Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
                 85
His Asp Gln Val Val Leu Leu His Asp Val Arg Asp Val Ser Val
                                105
            100
Glu Glu Glu Lys Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu
                                                 125
        115
                            120
Arg Leu Ala Thr Gly Phe Xaa His Xaa Leu Thr Gln Ser Ala Asp Met
                        135
                                            140
    130
Gly
145 -
<210> 1354
<211> 89
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1354
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Leu Leu Leu Leu Leu Val Xaa Leu Leu Gl<br/>n Ala Gly Leu As<br/>n Thr $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$ 

Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln 35 40 45

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly 50 60

Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp 65 70 75 80

Arg Ala Val Val Gln Met Ala Gln 85

<210> 1355

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1355

Leu Leu Leu Leu Leu Val Leu Leu Gln Ala Gly Leu Asn Thr
20 25 30

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln 35 40 45

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly 50 55 60

Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
65 70 75 80

Arg Ala Val Val Gln Met Ala Gln 85

<210> 1356

<211> 419

<212> PRT

<213> Homo sapiens

<400> 1356

Met Asn Asn Gln Lys Gln Gln Lys Pro Thr Leu Ser Gly Gln Arg Phe 1 5 10 15

Lys Thr Arg Lys Arg Asp Glu Lys Glu Arg Phe Asp Pro Thr Gln Phe 20 25 30

Gln Asp Cys Ile Ile Gln Gly Leu Thr Glu Thr Gly Thr Asp Leu Glu 35 40 45

Ala Val Ala Lys Phe Leu Asp Ala Ser Gly Ala Lys Leu Asp Tyr Arg 50 55 60

Arg Tyr Ala Glu Thr Leu Phe Asp Ile Leu Val Ala Gly Gly Met Leu

65					70					75					80
Ala	Pro	Gly	Gly	Thr 85	Leu	Ala	Asp	Asp	Met 90	Met	Arg	Thr	Asp	Val 95	Cys
Val	Phe	Ala	Ala 100	Gln	Glu	Asp	Leu	Glu 105	Thr	Met	Gln	Ala	Phe 110	Ala	Gln
Val	Phe	Asn 115	Lys	Leu	Ile	Arg	Arg 120	Tyr	Lys	Tyr	Leu	Glu 125	Lys	Gly	Phe
Glu	Asp 130	Glu	Val	Lys	Lys	Leu 135	Leu	Leu	Phe	Leu	Lys 140	Gly	Phe	Ser	Glu
Ser 145	Glu	Arg	Asn	Lys	Leu 150	Ala	Met	Leu	Thr	Gly 155	Val	Leu	Leu	Ala	Asn 160
Gly	Thr	Leu	Asn	Ala 165	Ser	Ile	Leu	Asn	Ser 170		Tyr'	Asn	Glu	Asn 175	Leu
Val	Lys	Glu	Gly 180	Val	Ser	Ala	Ala	Phe 185	Ala	Val	Lys	Leu	Phe 190	Lys	Ser
Trp	Ile	Asn 195	Glu	Lys	Asp	Ile	Asn 200	Ala	Val	Ala	Ala	Ser 205	Leu	Arg	Lys
Val	Ser 210	Met	Asp	Asn	Arg	Leu 215	Met	Glu	Leu	Phe	Pro 220	Ala	Asn	Lys	Gln
Ser 225	Val	Glu	His	Phe	Thr 230	Lys	Tyr	Phe	Thr	Glu 235	Ala	Gly	Leu	Lys	Glu 240
Leu	Ser	Glu	Tyr	Val 245	Arg	Asn	Gln	Gln	Thr 250	Ile	Gly	Ala	Arg	Lys 255	Glu
Leu	Gln	Lys	Glu 260	Leu	Gln	Glu	Gln	Met 265	Ser	Arg	Gly	Asp	Pro 270	Phe	Lys
		275			Val		280		-			285			
Glu	Pro 290	Val	Val	Ile	Gly	Ile 295	Val	Trp	Ser	Ser	Val 300	Met	Ser	Thr	Val
Glu 305	Trp	Asn	Lys	Lys	Glu 310	Glu	Leu	Val	Ala	Glú 315	Gln	Ala	Ile	Lys	His 320
		•		325	Pro				330					335	
Ser	Glu	Leu	Thr 340	Leu	Leu	Leu	Lys	Ile 345	Gln	Glu	Tyr	CAs.	Tyr 350	Asp	Asn

Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr Lys 360

Ala Glu Val Leu Ser Glu Glu Pro Ile Leu Lys Trp Tyr Lys Asp Ala 370 375 380

His Val Ala Lys Gly Lys Ser Val Phe Leu Glu Gln Met Lys Lys Phe

345 350

390

Val Glu Trp Leu Lys Asn Ala Glu Glu Glu Ser Glu Ser Glu Ala Glu 410

395

Glu Gly Asp

385

<210> 1357

<211> 19

<212> PRT

<213> Homo sapiens

<400> 1357

Thr Ile Ala Cys Met Leu Thr Phe Cys Phe Val Leu Phe Cys Phe Val

Leu His Phe

<210> 1358

<211> 857

<212> PRT

<213> Homo sapiens

<400> 1358

Met Ser Tyr Tyr Met Ala Asp Arg Lys His Arg Lys Ala Phe Leu Glu 10

Ala Arg Gln Ser Leu Glu Val Lys Met Asn Leu Glu Glu Gln Ser Gln

Gln Gln Glu Asn Leu Met Leu Ser Ile Leu Pro Lys His Val Ala Asp

Glu Met Leu Lys Asp Met Lys Lys Asp Glu Ser Gln Lys Asp Gln Gln

Gln Phe Asn Thr Met Tyr Met Tyr Arg His Glu Asn Val Ser Ile Leu 70

Phe Ala Asp Ile Val Gly Phe Thr Gln Leu Ser Ser Ala Cys Ser Ala

Gln Glu Leu Val Lys Leu Leu Asn Glu Leu Phe Ala Arg Phe Asp Lys 100 105

Leu Ala Ala Lys Tyr His Gln Leu Arg Ile Lys Ile Leu Gly Asp Cys 120.

Tyr Tyr Cys Ile Cys Gly Leu Pro Asp Tyr Arg Glu Asp His Ala Val

Cys Ser Ile Leu Met Gly Leu Ala Met Val Glu Ala Ile Ser Tyr Val

Arg Glu Lys Thr Lys Thr Gly Val Asp Met Arg Val Gly Val His Thr 170 Gly Thr Val Leu Gly Gly Val Leu Gly Gln Lys Arg Trp Gln Tyr Asp Val Trp Ser Thr Asp Val Thr Val Ala Asn Lys Met Glu Ala Gly Gly 200 Ile Pro Gly Arg Val His Ile Ser Gln Ser Thr Met Asp Cys Leu Lys 215 Gly Glu Phe Asp Val Glu Pro Gly Asp Gly Gly Ser Arg Cys Asp Tyr 235 Leu Glu Glu Lys Gly Ile Glu Thr Tyr Leu Ile Ile Ala Ser Lys Pro 245 Glu Val Lys Lys Thr Ala Thr Gln Asn Gly Leu Asn Gly Ser Ala Leu Pro Asn Gly Ala Pro Ala Ser Ser Lys Ser Ser Ser Pro Ala Leu Ile 280 Glu Thr Lys Glu Pro Asn Gly Ser Ala His Ser Ser Gly Ser Thr Ser 295 Glu Lys Pro Glu Glu Gln Asp Ala Gln Ala Asp Asn Pro Ser Phe Pro 315 Asn Pro Arg Arg Arg Leu Arg Leu Gln Asp Leu Ala Asp Arg Val Val Asp Ala Ser Glu Asp Glu His Glu Leu Asn Gln Leu Leu Asn Glu Ala 345 Leu Leu Glu Arg Glu Ser Ala Gln Val Val Lys Lys Arg Asn Thr Phe 360 355 Leu Leu Ser Met Arg Phe Met Asp Pro Glu Met Glu Thr Arg Tyr Ser 375 Val Glu Lys Glu Lys Gln Ser Gly Ala Ala Phe Ser Cys Ser Cys Val 395 390 Val Leu Leu Cys Thr Ala Leu Val Glu Ile Leu Ile Asp Pro Trp Leu 405 410 Met Thr Asn Tyr Val Thr Phe Met Val Gly Glu Ile Leu Leu Leu Ile 430 425 Leu Thr Ile Cys Ser Leu Ala Ala Ile Phe Pro Arg Ala Phe Pro Lys 440 445 Lys Leu Val Ala Phe Ser Thr Trp Ile Asp Arg Thr Arg Trp Ala Arg 455

Asn Thr Trp Ala Met Leu Ala Ile Phe Ile Leu Val Met Alà Asn Val

- Val Asp Met Val Ser His Met Val Lys Leu Thr Leu Met Leu Leu Val
  485 490 495
- Ala Gly Ala Val Ala Thr Ile Asn Leu Tyr Ala Trp Arg Pro Val Phe 500 505 510
- Asp Glu Tyr Asp His Lys Arg Phe Arg Glu His Asp Leu Pro Met Val 515 520 525
- Ala Leu Glu Gln Met Gln Gly Phe Asn Pro Gly Leu Asn Gly Thr Asp 530 540
- Arg Leu Pro Leu Val Pro Ser Lys Tyr Ser Met Thr Val Met Val Phe 545 550 560
- Leu Met Met Leu Ser Phe Tyr Tyr Phe Ser Arg His Val Glu Lys Leu
  565 570 575
- Ala Arg Thr Leu Phe Leu Trp Lys Ile Glu Val His Asp Gln Lys Glu
  580 585 590
- Arg Val Tyr Glu Met Arg Arg Trp Asn Glu Ala Leu Val Thr Asn Met 595 600 605
- Leu Pro Glu His Val Ala Arg His Phe Leu Gly Ser Lys Lys Arg Asp 610 615 620
- Glu Glu Leu Tyr Ser Gln Thr Tyr Asp Glu Ile Gly Val Met Phe Ala 625 630 635 640
- Ser Leu Pro Asn Phe Ala Asp Phe Tyr Thr Glu Glu Ser Ile Asn Asn 645 650 655
- Gly Gly Ile Glu Cys Leu Arg Phe Leu Asn Glu Ile Ile Ser Asp Phe 660 665 670
- Asp Ser Leu Leu Asp Asn Pro Lys Phe Arg Val Ile Thr Lys Ile Lys 675 680 685
- Thr Ile Gly Ser Thr Tyr Met Ala Ala Ser Gly Val Thr Pro Asp Val 690 695 700
- Asn Thr Asn Gly Phe Ala Ser Ser Asn Lys Glu Asp Lys Ser Glu Arg 705 710 715 720
- Glu Arg Trp Gln His Leu Ala Asp Leu Ala Asp Phe Ala Leu Ala Met 725 730 735
- Lys Asp Thr Leu Thr Asn Ile Asn Asn Gln Ser Phe Asn Asn Phe Met 740 745 750
- Leu Arg Ile Gly Met Asn Lys Gly Gly Val Leu Ala Gly Val Ile Gly 755 760 765
- Ala Arg Lys Pro His Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala 770 775 780
- Ser Arg Met Glu Ser Thr Gly Val Met Gly Asn Ile Gln Val Val Glu 785 790 795 800

Glu Thr Gln Val Ile Leu Arg Glu Tyr Gly Phe Arg Phe Val Arg Arg 805 810 815

Gly Pro Ile Phe Val Lys Gly Lys Gly Glu Leu Leu Thr Phe Phe Leu 820 825 830

Lys Gly Arg Asp Lys Leu Ala Thr Phe Pro Asn Gly Pro Ser Val Thr 835 840 845

Leu Pro His Gln Val Val Asp Asn Ser 850 855

<210> 1359

<211> 188

<212> PRT

<213> Homo sapiens

<400> 1359

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro 1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe 20 25 30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro 35 40 45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His 50 55 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly 65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser 85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
100 105 110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met 115 120 125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu 130 135 140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly 145 150 155 160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro 165 170 175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
180 185

<210> 1360 <211> 188

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<212> PRT
<213> Homo sapiens-
<400> 1360
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
                                     90 .
Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
                                105
Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
                       135
Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
                                       155
Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
                                   170
Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
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180 185

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<210> 1361
<211> 116
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> <221> SITE <222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1361

Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu 10

Gly Phe Val Tyr Phe Pro Cys Phe Thr Phe Pro Xaa Val Gln Ala Val 20 25 30

Val Glu Thr Gly Thr Gln Gly Leu Cys Val Ala Pro Cys Ser Ser Cys  $\dot{}$  35 40 45

Leu Gln Glu Ala Cys Gly Ala Leu Val Ser Leu Ala Ser Cys Pro Pro 50 55 60

Phe Leu Leu Pro Pro Leu Thr Leu Pro Pro Thr Leu Ser Leu Arg Thr 65 70 75 80

Ser Ser Trp Lys Gly Leu Ala Arg Ala Xaa Val Leu Ala Ser Leu Trp 85 90 95

Gly Gly Arg Leu Cys Gly Leu Lys Gly Cys Arg Leu Lys Leu Gln Gly
100 105 110

Val Gly Ala Trp 115

<210> 1362

<211> 167

<212> PRT

<213> Homo sapiens

<400> 1362

Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu 1 5 10 15

Gly Phe Val Tyr Phe Pro Cys Phe Thr Phe Pro Cys Val Gln Ala Val

Val Glu Thr Gly Thr Gln Gly Leu Cys Val Ala Pro Cys Ser Ser Cys 40 45

Leu Gln Glu Ala Cys Gly Ala Leu Val Ser Leu Ala Ser Cys Pro Pro 50 55 60

Phe Leu Leu Pro Pro Leu Thr Leu Pro Pro Thr Leu Ser Leu Arg Thr 65 70 75 80

Ser Ser Trp Lys Gly Leu Ala Arg Ala Cys Val Leu Ala Ser Leu Trp 85 90 95

Gly Gly Arg Leu Cys Gly Leu Lys Gly Cys Arg Leu Lys Leu Gln Gly
100 105 110

Val Gly Ala Trp Glu Gly Met Cys Thr Ala Leu Leu Thr Asp Pro Phe 115 120 125

Met Phe Ser Phe Phe Asp Ser Val Leu Cys Cys Pro Asp Gly Gly Val 130 135 140

Ser Pro Cys Leu Leu Pro Phe Leu Pro Trp Thr Leu Ala Ile Gly Pro 145 150 155 160

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<210> 1363
<211> 286
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (204)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
·<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (264)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (271)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1363
 Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
 Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
              20
 Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
                              40
 Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
 Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
                      70
 Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
                  85
 Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
                                 105
 Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
                             120
         115
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- Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu 130 135 140
- Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr 145 150 155 160
- Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu 165 170 175
- Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu 180 185 190
- Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu 195 200 205
- Leu Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Thr Val Leu Xaa 210 215 220
- Tyr Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg 225 230 235 240
- Met Phe Glu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln
  245 250 255
- Arg Val Val Pro Ala Leu His Xaa Leu Ser Pro Val Asp Pro Xaa Asn 260 265 270
- Leu Cys Gln Asp Cys His Asn Phe Gln Pro Leu Gly Leu Phe 275 280 285
- <210> 1364
- <211> 283
- <212> PRT
- <213> Homo sapiens
- <400> 1364
- Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu 1 5 10 15
- Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu 20 25 30
- Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu 35 40 45
- Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
  50 55 60
- Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp 65 70 75 80
- Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu 85 90 95
- Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe 100 105 110
- Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr

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125
        115
Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
                        135
Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
                   150
Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Ala Ser Phe Val Glu
                            200
Leu Gly Ala Asn Pro Ala Tyr His Glu Leu Leu Leu Thr Val Leu Trp
                        215
Tyr Gly Val Val His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
                                        235
                   230
Met Phe Glu Val Cys Gln His Met Pro Leu Leu Val Ser Ile Ile Met
                                   250
                245
Ile Phe Phe Phe Leu Arg Arg Arg Glu Phe Phe Leu Ile Lys Arg
                                265
Leu Cys Ile Ser Lys Lys Lys Lys Lys Lys
                            280
<210> 1365
<211> 379
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (283)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1365

Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr 25

- His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly
  35 40 45
- Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys 50 55 60
- Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met
  65 70 75 80
- Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val 85 90 95
- Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val
- Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln 115 120 125
- Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu 130 135 140
- Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu 145 150 155 160
- Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile 165 170 175
- Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser 180 185 190
- Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn 195 200 205
- Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu 210 215 220
- Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Val 225 230 235 240
- Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Asp 245 250 255
- Arg Lys Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu Ser 260 265 270
- Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu Leu 275 280 285
- Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa Tyr 290 295 300
- Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg Met 305 310 315 320
- Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln Arg
  325 330 335
- Val Val Pro Ala Leu Ile Thr Leu Ser Ser Asp Pro Glu Ile Ser Val 340 345 350

Arg Ile Ala Thr Ile Pro Ala Phe Gly Thr Ile Met Glu Thr Val Ile

Gln Arg Glu Leu Leu Glu Arg Val Lys Met Gln 370 375

<210> 1366

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1366

Met Pro Ala Leu Leu Pro Val Ala Ser Arg Leu Leu Leu Leu Pro Arg 1 5 10 15

Val Leu Leu Thr Met Ala Ser Gly Ser Pro Pro Thr Gln Pro Ser Pro 20 25 30

Ala Ser Asp Ser Gly Ser Gly Tyr Val Pro Gly Ser Val Ser Ala Ala 35 40 45

Phe Val Thr Cys Pro Asn Glu Lys Val Ala Lys Glu Ile Ala Arg Ala 50 . 55 60

Val Val Glu Lys Arg Leu Ala Ala Cys Val Asn Leu Ile Pro Gln Ile
65 70 75 80

Thr Ser Ile Tyr Glu Trp Lys Gly Lys Ile Glu Glu Asp Ser Glu Val 85 90 95

Leu Met Met Ile Lys Thr Gln Ser Ser Leu Val Pro Ala Leu Thr Asp 100 105 110

Phe Val Arg Ser Val His Pro Tyr Glu Val Ala Glu Val Ile Ala Leu 115 120 125

Pro Val Glu Gln Gly Asn Phe Pro Tyr Leu Gln Trp Val Arg Gln Val 130 135 140

Thr Glu Ser Val Ser Asp Ser Ile Thr Val Leu Pro 145 150 155

<210> 1367

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1367

Met Pro Ala Leu Leu Pro Val Ala Ser Arg Leu Leu Leu Pro Arg

1 5 10 15

Val Leu Leu Thr Met Ala Ser Gly Ser Pro Pro Thr Gln Pro Ser Pro 20 25 30

Ala Ser Asp Ser Gly Ser Gly Tyr Val Pro Gly Ser Val Ser Ala Ala

Phe Val Thr Cys Pro Asn Glu Lys Val Ala Lys Glu Ile Ala Arg Ala 50 55 60

40

Val Val Glu Lys Arg Leu Ala Ala Cys Val Asn Leu Ile Pro Gln Ile 65 70 75 80

Thr Ser Ile Tyr Glu Trp Lys Gly Lys Ile Glu Glu Asp Ser Glu Val 85 90 95

Leu Met Met Ile Lys Thr Gln Ser Ser Leu Val Pro Ala Leu Thr Asp 100 105 110

Phe Val Arg Ser Val His Pro Tyr Glu Val Ala Glu Val Ile Ala Leu 115 120 125

Pro Val Glu Gln Gly Asn Phe Pro Tyr Leu Gln Trp Val Arg Gln Val 130 135 140

Thr Glu Ser Val Ser Asp Ser Ile Thr Val Leu Pro 145 150 155

<210> 1368

<211> 442

<212> PRT

<213> Homo sapiens

35

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1368

Met Trp Arg Leu Pro Gly Leu Leu Gly Arg Ala Leu Pro Arg Thr Leu 1 5 10 15

Gly Pro Ser Leu Trp Arg Val Thr Pro Lys Ser Thr Ser Pro Asp Gly 20 25 30

Pro Gln Thr Thr Ser Ser Thr Leu Leu Val Pro Val Pro Asn Leu Asp 35 40 45

Arg Ser Gly Pro His Gly Pro Gly Thr Ser Gly Gly Pro Arg Ser His 50 55 60

Gly Trp Lys Asp Ala Phe Gln Trp Met Ser Ser Arg Val Ser Pro Asn 65 70 75 80

Thr Leu Trp Asp Ala Ile Ser Trp Gly Thr Leu Ala Val Leu Ala Leu
85 90 95

Gln Leu Ala Arg Gln Ile His Phe Gln Ala Ser Leu Pro Ala Gly Pro

Gln	Arg	Val 115	Glu	His	Cys	Ser	Trp 120	His	Ser	Pro	Leu	Asp 125	Arg	Phe	Phe
Ser	Ser 130	Pro	Leu	Trp	His	Pro 135	Cys	Ser	Ser	Leu	Arg 140	Gln	His	Ile	Leu
Pro 145	Ser	Pro	Asp	Gļy	Pro 150	Ala	Pro	Arg	His	Thr 155	Gly	Leu	Arg	Glu	Pro 160
Arg	Leu	Gly	Xaa	Glu 165	Glu	Ala	Ser	Ala	Gln 170	Pro	Arg	Asn	Phe	Ser 175	His
Asn	Ser	Leụ	Arg 180	Gly	Ala	Arg	Pro	Gln 185	Asp	Pro	Ser	Glu	Glu 190	Gly	Pro
		195			Leu		200					205			
_	210				Gln	215					220				
225					Glu 230					235					240
				245	Ile				250					255	
			260		Thr			265					270		
		275			Lys		280					285			
	290				Pro	295					300				
3.05					Gln 310					315					320
				325	Asp				330					335	
			340		Leu			345					350		
		355			Gly •		360					365		•	
	370				Lys	375					380				
385					His 390					395					400
Val	Gln	Arg	Asn	Leu 405	Gly	Glu	Ala	Leu	Arg 410	Cys	Tyr	Gln	Gln	Ser 415	Ala

Ala Leu Gly Asn Glu Ala Ala Gln Glu Arg Leu Arg Ala Leu Phe Ser

Met Gly Ala Ala Gly Gly Pro Ala Thr 435 440

<210> 1369

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1369

Met Gly Leu Arg Leu Pro Pro Pro Leu Cys Trp Phe Leu Cys Leu Thr 1 5 10 15

Ser Thr Gly Gln Val Pro Met Ala Gln Ala Arg Ala Gly Val Gln Gly 20 25 30

Pro Met Asp Gly Arg Met Pro Ser Asn Gly Cys Leu Pro Val Ser Pro 35 40 45

Arg Thr Pro Tyr Gly Met Pro Tyr Leu Gly Ala Leu Trp Pro Cys Trp 50 55 60

Pro Cys Ser Trp Gln Gly Arg Ser Thr Ser Arg His Pro Cys Gln Gln 65 70 75 80

Asp Leu Ser Gly

<210> 1370

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1370

Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val 1 10 15

Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly 20 25 30

Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile 40 45

Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu 50 60

Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser 65 70 75 80

Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe 85 90 95

Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln
100 105 110

Pro

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<210> 1371
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1371
Xaa Xaa Asp Thr Gln Gly Arg Val Arg Gly Arg His Glu Glu Trp Gly
Gly Arg Arg Trp Arg Lys Glu Gly Ser Glu Gln Arg Ala Pro Gly Met
         . . 20
Ala Trp Lys Arg Leu Ser Pro Trp Ile Leu Trp Val Gly Ala Ser Gly
Leu Thr Ser Xaa Xaa
<210> 1372
<211> 129
<212> PRT
<213> Homo sapiens
<400> 1372
Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val
                                    . 10
Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly
             20
                                 25
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Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp

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Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile 35 40 45
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Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu 50 55 60

Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser 65 70 75 80

Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe 85 90 95

Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln 100 105 110

Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp 115 120 125

Pro

<210> 1373

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1373

Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser 1 5 10 15

Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala 20 25 30

Gln Glu Lys Val Ile Pro Ala Leu Ala Cys Leu Gly Gln Gly Lys Gly 45

Pro Asn Lys Thr Pro Val Ala Ala Ile Cys Leu Thr Ser Leu Val Thr 50 55 60

Met Ala Phe Val Phe Val Gly Gln Val Asn Val Leu Ala Pro Ile Val 65 70 75 80

Thr Ile Asn Phe Met Leu Thr Tyr Val Ala Val Asp Tyr Ser Tyr Phe 85 90 95

Ser Leu Ser Met Cys Ser Cys Ser Leu Thr Pro Val Pro Glu Pro Val
100 105 110

Leu Xaa Glu Gly Ala 115

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<210> 1374
<211> 98
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1374
Gln Gly Thr Pro Arg Leu Cys Thr Thr Arg Leu Leu Val Gln Arg Ala
Thr Ile Ser Val Cys Phe Ile Phe Tyr Cys Ile Ile Tyr Ser Lys Ile
                                  25
Asn Asn Thr Leu Thr Cys Phe His Thr Gln Lys Ile Tyr Arg Val Lys
Ser Leu Pro Pro Ile Leu Ile Leu His Leu Leu Ser Ser Cys Leu Pro
Trp Pro Arg Gly Asn His Tyr Ser His Pro Tyr Ile Gln His Phe Phe
                     70
Met Asp Ile Gln Xaa Asn Gly Asn Val Xaa Ser His Ile Ser Leu Phe
Xaa Pro
<210> 1375
<211> 407
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1375
Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser
                                      1.0
Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala
                                  25
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- Gln Glu Lys Val Ile Pro Ala Leu Ala Cys Leu Gly Gln Gly Lys Gly 35 40 45
- Pro Asn Lys Thr Pro Val Ala Ala Ile Cys Leu Thr Ser Leu Val Thr 50 55 60
- Met Ala Phe Val Phe Val Gly Gln Val Asn Val Leu Ala Pro Ile Val 65 70 75 80
- Thr Ile Asn Phe Met Leu Thr Tyr Val Ala Val Asp Tyr Ser Tyr Phe 85 90 95
- Ser Leu Ser Met Cys Ser Cys Ser Leu Thr Pro Val Pro Glu Pro Val
- Leu Xaa Glu Gly Ala Glu Gly Leu His Cys Ser Glu His Leu Leu Leu 115 120 125
- Glu Lys Ala Pro Ser Tyr Gly Ser Glu Gly Pro Ala Gln Arg Val Leu 130 135 140
- Glu Gly Thr Leu Leu Glu Phe Thr Lys Asp Met Asp Gln Leu Leu Gln 145 150 155 160
- Leu Thr Arg Lys Leu Glu Ser Ser Gln Pro Arg Gln Gly Glu Gly Asn 165 170 175
- Arg Thr Pro Glu Ser Gln Lys Arg Lys Ser Lys Lys Ala Thr Lys Gln 180 185 190
- Thr Leu Gln Asp Ser Phe Leu Leu Asp Leu Lys Ser Pro Pro Ser Phe 195 200 205
- Pro Val Glu Ile Ser Asp Arg Leu Pro Ala Ala Ser Trp Glu Gly Gln 210 215 220
- Glu Ser Cys Trp Asn Lys Gln Thr Ser Lys Ser Glu Gly Thr Gln Pro 225 230 235 240
- Glu Gly Thr Tyr Gly Glu Gln Leu Val Pro Glu Leu Cys Asn Gln Ser 245 250 255
- Glu Ser Ser Gly Glu Asp Phe Phe Leu Lys Ser Arg Leu Gln Glu Gln 260 265 270
- Asp Val Trp Arg Arg Ser Thr Ser Phe Tyr Thr His Met Cys Asn Pro 275 280 285
- Trp Val Ser Leu Leu Gly Ala Val Gly Ser Leu Leu Ile Met Phe Val 290 295 300
- Ile Gln Trp Val Tyr Thr Leu Val Asn Met Gly Val Ala Ala Ile Val 305 310 315 320
- Tyr Phe Tyr Ile Gly Arg Ala Ser Pro Gly Leu His Leu Gly Ser Ala 325 330 335
- Ser Asn Phe Ser Phe Phe Arg Trp Met Arg Ser Leu Leu Pro Ser 340 345 350

Cys Arg Ser Leu Gln Ser Pro Gln Glu Gln Ile Ile Leu Ala Pro Ser 355 360 365

Leu Ala Lys Val Asp Met Glu Met Thr Gln Leu Thr Gln Glu Asn Ala 370 375 380

Asp Phe Ala Thr Arg Asp Arg Tyr His His Ser Ser Leu Val Asn Arg 385 390 395 400

Glu Gln Leu Met Pro His Tyr 405

<210> 1376

<211> 137

<212> PRT

<213> Homo sapiens

<400> 1376

Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg

1 10 15

Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val 20 25 30

Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val 35 40 45

Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser 50 55 60

Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu 65 70 75 80

Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu 85 90 95

Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala 100 105 110

Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly
115 120 125

Gly Asn Lys Lys Thr Leu Gly Thr Pro 130

<210> 1377

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids.

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<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1377
Phe Gly Pro Ala Val Phe Gly Phe Gly Ser Pro Arg Gly Lys Pro Pro
Gly Asn Xaa Arg Gly Gly Pro Ile Arg Val Pro Gly Phe Gly Arg Pro
Arg Pro Ile Ser Ala Pro Glu Val Trp Glu Gly Arg Pro Leu Xaa Ala
Pro Arg Ser Cys Phe Arg Asn Phe Arg Xaa Arg Arg Ser Gly Gly His
Ala Val Pro Pro Gly Ser Glu Thr His Phe Arg Val Ala Val Val Ser
Ser Arg Phe Glu Gly Leu Ser Pro Leu Gln Arg His Arg Leu Val His
Ala Ala Leu Ala Glu Glu Leu Xaa Gly Pro Val His Ala Leu Ala Ile
                                105
           100
Gln Ala Arg Thr Pro Ala Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr
                            120
        115
Ser Pro Pro Cys Leu Gly Gly Asn Lys Lys Thr Leu Gly Thr Pro
                        135
<210> 1378
<211> 137
<212> PRT
<213> Homo sapiens
<400> 1378
Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg
Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val
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Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val 40

35

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Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser 50 55 60
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Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu 65 70 75 80

Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu 85 90 95

Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala 100 105 110

Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly 115 120 125

Gly Asn Lys Lys Thr Leu Gly Thr Pro 130 135

<210> 1379

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1379

Met Ile Arg Arg Leu Val Phe Ala Ala Phe Pro Arg Leu Phe Pro Val 1 5 10 15

Xaa Leu Pro Ser Met Leu Thr His Trp Ala Ser Leu Ala Val Ile Pro 20 25 30

Thr Met Thr Ala Thr Ser Val Gly Lys Ala Pro Pro Gly Pro Leu Pro

Asp Ala Ser Pro Ser Leu Arg Leu Pro Ala Arg Arg Arg Pro Asp Pro 50 55 60

Val Gly Ala Cys Arg Gly Val Arg Gly Met Ala Asp Leu Met Val Pro 65 70 75 80

Leu Pro

<210> 1380

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (237)
<223> Kaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (246)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1380
Glu Phe Gly Thr Ser Leu Lys Val Arg Gly Phe Ile Leu Glu Val Ser
Glu Thr Thr Asn Pro Pro Glu Gly Thr Asn Ser Gly His Ser Gly Met
             20
Val Ser Ala Leu Cys Gly Leu Cys Leu Leu Gly Ser Asn Asp Ser Pro
Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Leu Ser Lys Ser Leu
Gly Leu Ile Glu Gly Tyr Gly Gly Arg Gly Lys Gly Gly Leu Pro Ala
Thr Leu Ser Pro Ala Glu Glu Lys Ala Lys Gly Pro His Glu Lys
Tyr Gly Tyr Asn Ser Tyr Leu Ser Glu Lys Ile Ser Leu Asp Arg Ser
            100
                                105
Ile Pro Asp Tyr Arg Pro Thr Lys Cys Lys Glu Leu Lys Tyr Ser Lys
                            120
Asp Leu Pro Gln Ile Ser Ile Ile Phe Ile Phe Val Asn Glu Ala Leu
                        135
Ser Val Ile Leu Arg Ser Val His Ser Ala Val Asn His Thr Pro Thr
145
                    150
                                        155
His Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Asn Ser Asp Glu Xaa
                165
                                    170
Glu Leu Lys Val Pro Leu Glu Glu Tyr Val His Lys Arg Tyr Pro Gly
            180
Leu Val Lys Val Val Arg Asn Gln Lys Arg Glu Ser Leu Ile Arg Ala
                            200
        195
                                                205
```

Arg Xaa Glu Gly Trp Xaa Val Ala Thr Gly Gln Val Thr Gly Phe Phe 210 215 220

Asp Ala Pro Arg Gly Ile His Arg Leu Leu Gly Leu Xaa Arg Val Tyr 225 230 235 240

Pro Asp Pro Gly Lys Xaa Arg Lys Arg Gly Asn Leu Pro Leu 245 250

<210> 1381

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1381

Gly Arg Glu Phe Glu Thr Ser Leu Asp Asn Ile Ala Arg Asp Pro Val 1 5 10 15

Cys Ile Thr Ser Leu Lys Ile Asp Trp Ala Trp Trp Cys Met Met Val 20 25 30

Val Pro Ala Thr Arg Gly Thr Gly Ala Glu Gly Ser Leu Glu Ser Arg . 35 40 45

Phe Gln Ala Ala Val Gly Cys Asp Cys Val Thr Ala Leu Gln Pro Gly 50 55 60

Gln Gln Ser Glu Thr Leu Ser Leu Lys Lys
65 70

<210> 1382

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1382

Met Val Ser Ala Leu Cys Gly Leu Cys Leu Leu Gly Ser Asn Asp Ser 1 5 10 15

Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Leu Ser Lys Ser 20 25 30

Leu Gly Leu Ile Glu Gly Tyr Gly Gly Arg Gly Lys Gly Gly Leu Pro
35 40 45

Ala Thr Leu Ser Pro Ala Glu Glu Glu Lys Ala Lys Gly Pro His Glu 50 55 60

Lys Tyr Gly Tyr Asn Ser Tyr Leu Ser Glu Lys Ile Ser Leu Asp Arg 65 70 75 80

Ser Ile Pro Asp Tyr Arg Pro Thr Lys Cys Lys Glu Leu Lys Tyr Ser 85 90 95

Lys Asp Leu Pro Gln Ile Ser Ile Ile Phe Ile Phe Val Asn Glu Ala

Leu Ser Val Ile Leu Arg Ser Val His Ser Ala Val Asn His Thr Pro-115 120 125

Thr His Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Asn Ser Asp Glu 130 135 140

Glu Glu Leu Lys Val Pro Leu Glu Glu Tyr Val His Lys Arg Tyr Pro 145 150 155 160

Gly Leu Val Lys Val Val Arg Asn Gln Lys Arg Glu Gly Leu Ile Arg 165 170 175

Ala Arg Ile Glu Gly Trp Lys Val Ala Thr Gly Gln Val Thr Gly Phe 180 185 190

Phe Asp Ala His Val Glu Phe Thr Ala Gly Trp Ala Glu Pro Val Leu 195 200 205

Ser Arg Ile Gln Glu Asn Arg Lys Arg Val Ile Leu Pro Ser Ile Asp 210 215 220

Asn Ile Lys Gln Asp Asn Phe Glu Val Gln Arg Tyr Glu Asn Ser Ala 225 230 235 240

His Gly Tyr Ser Trp Glu Leu Trp Cys Met Tyr Ile Ser Pro Pro Lys 245 250 255

Asp Trp Trp Asp Ala Gly Asp Pro Ser Leu Pro Ile Ser Asp Arg Phe 260 265 270

Ser

<210> 1383

<211> 238

<212> PRT

<213> Homo sapiens

<400> 1383

Met Gln Gln Gly Pro Lys Glu Phe Ile Glu Cys Val Ser His Ile Arg 1 5 10 15

Leu Leu Ser Trp Leu Leu Gly Ser Leu Thr His Asn Ala Val Cys 20 25 30

Pro Asn Ala Ser Ser Pro Cys Leu Pro Ile Pro Leu Asp Ala Gly Ser 35 40 45

His Val Ala Asp His Leu Ile Val Ile Leu Ile Gly Phe Pro Glu Gln 50 55 60

Ser Lys Thr Ser Val Leu His Met Cys Ser Leu Phe His Ala Phe Ile 65 70 75 80

Phe Ala Gln Leu Trp Thr Val Tyr Cys Glu Gln Ser Ala Val Ala Thr 85 90 95

- Asn Leu Gln Asn Gln Asn Glu Phe Ser Phe Thr Ala Ile Leu Thr Ala
  100 105 110
- Leu Glu Phe Trp Ser Arg Val Thr Pro Ser Ile Leu Gln Leu Met Ala
  115 120 125
- His Asn Lys Val Met Val Glu Met Val Cys Leu His Val Ile Ser Leu 130 135 140
- Met Glu Ala Leu Gln Glu Cys Asn Ser Thr Ile Phe Val Lys Leu Ile 145 150 155 160
- Pro Met Trp Leu Pro Met Ile Gln Ser Asn Ile Lys His Leu Ser Ala 165 170 175
- Gly Leu Gln Leu Arg Leu Gln Ala Ile Gln Asn His Val Asn His His 180 185 190
- Ser Leu Arg Thr Leu Pro Gly Ser Gly Gln Ser Ser Ala Gly Leu Ala 195 200 205
- Ala Leu Arg Lys Trp Leu Gln Cys Thr Gln Phe Lys Met Ala Gln Val 210 215 220
- Glu Ile Gln Ser Ser Glu Ala Ala Ser Gln Phe Tyr Pro Leu 225 230 235

<210> 1384

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1384

- His Glu Leu Lys Val Gly Leu Ala Gln Ile Ala Ala Met Asp Ile Ser 1 5 10 15
- Arg Gly Asn His Arg Asp Asn Lys Ala Val Ile Arg Tyr Leu Pro Trp 20 25 30
- Leu Tyr His Pro Pro Ser Ala Met Gln Gln Gly Pro Lys Glu Phe Ile 35 40 45
- Glu Cys Val Ser His Ile Arg Leu Leu Ser Trp Leu Leu Gly Ser 50 55 60
- Leu Thr His Asn Ala Val Cys Pro Asn Ala Ser Ser Pro Cys Leu Pro 65 70 75 80
- Ile Pro Leu Asp Ala Gly Ser His Val Ala Asp His Leu Ile Val Ile 85 90 95
- Leu Ile Gly Phe Pro Glu Gln Ser Lys Thr Ser Val Leu His Met Cys 100 105 110
- Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val Tyr Cys 115 120 125

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Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu Phe Ser
130 135 140
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Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val Thr Pro 145 150 155 160

Ser Ile Leu Gln Leu Met Ala His Asn Lys Val Met Val Glu Met Val
165 170 175

Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Glu Cys Asn Ser 180 185 190

Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile Gln Ser 195 200 205

Asn Ile Lys His Leu Ser Ala Gly Leu Gln Phe Ala Ser Arg Leu Phe 210 215 220

Arg Thr Thr 225

<210> 1385

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1385

Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe 1 5 10 15

Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser 20 25 30

Cys Tyr Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro 35 40 45.

Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu 50 55 60

Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly 65 70 75 80

Gly Arg Cys Ser Gly

<210> 1386

<211> 110

<212> PRT

<213> Homo sapiens

<220> -

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1386

Leu Leu Gly Cys Thr Lys Ile Gly Gly Arg Ser Asp Leu Ala Gly Pro 1 5 10 15

Trp Val Arg Xaa Arg Ser Leu Glu Pro Thr Cys Val Gly Met Asn Pro 20 25 30

Gly Ser Ala Gly Cys Pro Leu Val Ser Gly Ser Thr Ser Leu Cys Phe 35 40 45

Arg Val Leu Ile Tyr Lys Met Gly Met Met Met Met Ile Leu Trp Gly 50 55 60

Cys Asn Met Val Gln Ser His Trp Lys Ser Leu Ala Val Pro Gln Lys 65 70 75 80

Val Lys His Lys Ser Tyr His Met Ile Gln Val Trp Gln His Ile Pro 85 90 95

Val Val Pro Ala Thr Gln Glu Asp His Leu Ser Pro Gly Val 100 105 110

<210> 1387

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1387

Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe 1 5 10 15

Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser 20 25 30

Cys Tyr Leu Leu Gl<br/>n Ile Gl<br/>n Lys Pro Arg Leu Arg Glu Glu Pro \$35\$ <br/> 40 45

Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu 50 55 60

Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly 65 70 75 80

Gly Arg Cys Ser Gly 85

<210> 1388

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1388

Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn 1 5 10 15

Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly 20 25 30

- Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala 35 40 45
- Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe 50 55 60
- Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val 65 70 75 80
- Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile 85 90 95
- Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile 100 105 110
- Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile 115 120 125
- Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp 130 135 140
- Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser 145 150 155 160
- Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His 165 170 175
- Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr 180 185 190
- Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp 195 200 205
- Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys 210 215 220
- Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu 225 230 235 240
- Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys His
  245 250 255

Thr Lys Lys Asn Glu 260

<210> 1389

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1389

- Ile Val Asn Pro Met Phe Cys Asn Phe His Phe Arg Ser Leu Thr Tyr 1 5 10 15
- Phe Phe Leu Ser His Lys Asn Thr Phe Val Leu Ile Val Gly Glu Ile 20 25 30

Phe Ser Ala Phe Cys Met Phe Phe Leu Ile Phe Val Gly Leu Asn Ile 35 40 45

Leu Val Val Ile Thr Val Ile Ile Gln Gln Lys Ala Tyr Pro Phe Lys
50 55 60

Asn Phe Ser Thr Met Ser Phe Phe 65 70

<210> 1390

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1390

Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn 1 5 10 15

Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly 20 25 30

Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala 35 40 45

Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe 50 55 60

Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val 65 70 75 80

Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile 85 90 95

Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile 100 105 110

Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile 115 120 125

Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp 130 135 140

Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser 145 150 155 160

Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His
165 170 175

Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr 180 185 190

Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp 195 200 205

Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys 210 220

Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu

235

240

Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys His 245 250 255

Thr Lys Lys Asn Glu 260

<210> 1391

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1391

Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe 1 5 10 15

Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu 20 25 30

Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val
35 40 45

Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu 50 60

Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp 65 70 75 80

Ser Phe Gly Trp Gln Val Ala Leu Arg Pro Ser Glu Lys Ser Pro Cys 85 90 . 95

Phe Ser

<210> 1392

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1392

Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe 1 10 15

Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu 20 25 30

Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val

Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu 50 55 60

Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp 65 70 75 80

Ser Phe Gly Trp Gln Val Ala Leu Arg Pro Ser Glu Lys Ser Pro Cys 85 90 95

Phe Ser

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<210> 1393
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<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1393

Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Xaa Tyr Arg 1 5 10 15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala 20  $\phantom{\bigg|}25\phantom{\bigg|}$  30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe 35 40 45

Trp Leu Lys Arg Thr Ala Thr Arg Ser Ser Arg Pro Cys Ala Ser Asn 50 60

Thr Arg Cys Cys Ser Trp Pro Cys Ser Asp Pro Lys Ala Thr Gly Ser 65 70 75 80

Ser Pro Gly Ala Arg Ser Pro Pro Ser Thr Gly Cys Lys Gly Ile Ala 85 90 95

Cys Ala Ser Arg Ser Phe Arg Gly Gly Asp Asn Ala Cys Cys Val Lys

Gln Asp Ser Xaa Ser Leu Cys Ile Tyr Arg Ser Asp Val Asp Ser Ser 115 120 125

Gln Asn Ser Leu Val Thr Lys Gly Ala Gly Xaa 130 135

<210> 1394

<211> 316

<212> PRT <213> Homo sapiens

<400> 1394

Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
1 5 10 15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala 20 25 30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe 35 40 45

Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln 50 55 60

His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe 65 70 75 80

Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Leu Gln Gly Asp Arg
85 90 95

Leu Arg Val Pro Leu Val Ser Thr Arg Glu Glu Asp Arg Asn Gln Asp
100 105 110

Gly Lys Thr Asp Met Leu His Phe Lys Leu Glu Leu Pro Leu Gln Ser 115 120 125

Thr Glu His Val Leu Gly Val Gln Leu Ile Leu Thr Phe Ser Tyr Arg 130 135 140

Leu His Arg Met Ala Thr Leu Val Met Gln Ser Met Ala Phe Leu Gln 145 150 155 160

Ser Ser Phe Pro Val Pro Gly Ser Gln Leu Tyr Val Asn Gly Asp Leu 165 170 175

Arg Leu Gln Gln Lys Gln Pro Leu Ser Cys Gly Gly Leu Asp Ala Arg
180 185 190

Tyr Asn Ile Ser Val Ile Asn Gly Thr Ser Pro Phe Ala Tyr Asp Tyr 195 200 205

Asp Leu Thr His Ile Val Ala Ala Tyr Gln Glu Arg Asn Val Thr Thr 210 215 220

Val Leu Asn Asp Pro Asn Pro Ile Trp Leu Val Gly Arg Ala Ala Asp 225 230 235 240

Ala Pro Phe Val Ile Asn Ala Ile Ile Arg Tyr Pro Val Glu Val Ile 245 250 255

Ser Tyr Gln Pro Gly Phe Trp Glu Met Val Lys Phe Ala Trp Val Gln 260 265 270

Tyr Val Ser Ile Leu Leu Ile Phe Leu Trp Val Phe Glu Arg Ile Lys 275 280 285

Ile Phe Val Phe Gln Asn Gln Val Val Thr Thr Ile Pro Val Thr Val 290 295 300

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Thr Pro Arg Gly Asp Leu Cys Lys Glu His Leu Ser 305 310 315
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<210> 1395

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1395

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met

1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly 35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg 50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys 65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95

Leu Ile Ala Ser Thr Ala Val 100

<210> 1396

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1396

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys
65 70 75 80

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Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95
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Leu Ile Ala Ser Thr Ala Val 100

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<210> 1397
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<211> 125

<212> PRT

<213> Homo sapiens

<400>. 1397

Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe 1 5 10 15

Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Trp Leu 20 25 30

Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Pro Gly Phe Lys Cys Phe 35 40 45

Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His 50 55 60

His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His 65 70 75 . 80

Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala 85 90 95

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro 100 105 110

Pro Ala Cys Leu Val Phe Lys Phe Leu Phe Leu Gly Ser 115 120 125

<210> 1398

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1398

Ala Pro Val Leu Leu Pro Ser Ser Cys Trp Gln Phe Trp Val Leu 1 5 10 15

Gly Phe Phe Phe Arg Gln Ser Leu Thr Pro Ser Pro Gly Trp Lys 20 25 30

Tyr Ser Gly Ala Val Ser Ala His Cys Ser Leu Arg Leu Pro Gly Ser 35 40 45

Asn Asp Pro Leu Ala Ser Ala Ser Gln Leu Ala Gly Thr Thr Gly Ala 50 60

His His Gly Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe 65 70 75 80

His His Ile Ala Gln Ala Gly Leu Lys Leu Xaa Thr Ser Ser Asp Leu 85 90 95

Leu Thr Ser Ala Phe Gln Ser Ala Gly Xaa Ile Tyr Ile Leu Asn Lys 100 105 110

<210> 1399

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1399

Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Trp Leu 20 25 30

Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Pro Gly Phe Lys Cys Phe 35 40 45

Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His 50 60

His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His 65 70 75 80

Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala 85 90 95

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro
100 105 110

Pro Ala Cys Leu Phe Phe Lys Phe Leu Phe Leu Gly Ser 115 120 125

<210> 1400

<211> 79

<212> PRT

<213> Homo sapiens

Phe Ser Ser Arg Pro Cys Gln Glu Ser Thr Gln Ser Leu Met Lys Pro
20 25 30

Ala Leu Glu Gln Ser Gly Ile Ser Cys Val Gly Ser Ala Val Asn Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Ile Arg Leu Ser Ala Ser Ala Pro Glu Arg Gly Lys Ser Trp Val Ile 50 55 60

Pro Ser Leu Ala Ala Gly Met Arg Arg Met Ser Val Thr Pro Ala 65 70 75

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<210> 1401
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<211> 455

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1401

Xaa Thr Gly Gln Arg Cys Glu Asn Leu Leu Glu Glu Arg Asn Cys Ser 1 5 10 15 .

Xaa Pro Gly Gly Pro Val Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro 20 25 30

Gly Leu Ile Asn Gly Arg His Ala Lys Ile Gly Thr Val Val Ser Phe
35 40 45

Phe Cys Asn Asn Ser Tyr Val Leu Ser Gly Asn Glu Lys Arg Thr Cys 50 55 60

Gln Gln Asn Gly Glu Trp Ser Gly Lys Gln Pro Ile Cys Ile Lys Ala 65 70 75 80

Cys Arg Glu Pro Lys Ile Ser Asp Leu Val Arg Arg Arg Val Leu Pro

85 90 95

Met Gln Val Gln Ser Arg Xaa Thr Pro Leu His Gln Leu Tyr Ser Ala 100 105 Ala Phe Ser Lys Gln Lys Leu Gln Ser Ala Pro Thr Lys Lys Pro Ala 120 Leu Pro Phe Gly Asp Leu Pro Met Gly Tyr Gln His Leu His Thr Gln Leu Gln Tyr Glu Cys Ile Ser Pro Phe Tyr Arg Arg Leu Gly Ser Ser 155 Arg Arg Thr Cys Leu Arg Thr Gly Lys Trp Ser Gly Arg Ala Pro Ser 165 170 Cys Xaa Pro Ile Cys Gly Lys Ile Glu Asn Ile Thr Ala Pro Lys Thr 185 Gln Gly Leu Arg Trp Pro Trp Gln Ala Ala Ile Tyr Arg Arg Thr Ser 195 200 205 Gly Val His Asp Gly Ser Leu His Lys Gly Ala Trp Phe Leu Val Cys 215 Ser Gly Ala Leu Val Asn Glu Arg Thr Val Val Val Ala Ala His Cys 225 230 Val Thr Asp Leu Gly Lys Val Thr Met Ile Lys Thr Ala Asp Leu Lys Val Val Leu Gly Lys Phe Tyr Arg Asp Asp Asp Arg Asp Glu Lys Thr 265 Ile Gln Ser Leu Gln Ile Ser Ala Ile Ile Leu His Pro Asn Tyr Asp Pro Ile Leu Leu Asp Ala Asp Ile Ala Ile Leu Lys Leu Leu Asp Lys 295 Ala Arg Ile Ser Thr Arg Val Gln Pro Ile Cys Leu Ala Ala Ser Arg Asp Leu Ser Thr Ser Phe Gln Glu Ser His Ile Thr Val Ala Gly Trp Asn Val Leu Ala Asp Val Arg Ser Pro Gly Phe Lys Asn Asp Thr Leu Arg Ser Gly Val Val Ser Val Val Asp Ser Leu Leu Cys Glu Glu Gln 360 His Glu Asp His Gly Ile Pro Val Ser Val Thr Asp Asn Met Phe Cys 370 375 Ala Ser Trp Glu Pro Thr Ala Pro Ser Asp Ile Cys Thr Ala Glu Thr 390 395

Gly Gly Ile Ala Ala Val Ser Phe Pro Gly Arg Ala Ser Pro Glu Pro

Arg Trp His Leu Met Gly Leu Val Ser Trp Ser Tyr Asp Lys Thr Cys 420 425 430

Ser His Arg Leu Ser Thr Ala Phe Thr Lys Val Leu Pro Phe Lys Asp 435 440 445

Trp Ile Glu Arg Asn Met Lys 450 455

<210> 1402

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1402

Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Leu Ile Ser Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
20 25 30

Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr 35 40 45

Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr 50 55 60

Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu 65 70 75 80

Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn 85 90 95

Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr
100 105 110

Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys 115 120 125

Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr 130 135 140 Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe 145 150 155 160

Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met 165 170 175

Cys Gln Tyr Asp Tyr Val Glu Val Arg Asp Gly Asp Asn Arg Asp Gly
180 185 190

Gln Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Pro Ala Pro Ile Gln
195 200 205

Ser Ile Gly Ser Ser Leu His Val Leu Phe His Ser Asp Gly Ser Lys 210 215 220

Asn Phe Asp Gly Phe His Ala Ile Tyr Glu Glu Ile Thr Ala Cys Ser 225 230 235 240

Ser Ser Pro Cys Phe His Asp Gly Thr Cys Val Leu Asp Lys Ala Gly 245 250 255

Ser Tyr Lys Cys Ala Cys Leu Ala Gly Tyr Thr Gly Gln Arg Cys Glu 260 265 270

Asn Leu Leu Glu Ala Gly Lys Ser Lys Ile Xaa Ala Ser Glu Asp Ser 275 280 285

Leu Ser Val Leu Glu Glu Arg Xaa Cys Xaa Asp Pro Gly Gly Pro Val 290 295 300

Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro Gly Leu Ile Asn Gly Arg 305 310 315 320

His Ala Lys

<210> 1403

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1403

Met Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val Gln Ala 1 5 10 15

Ile Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe 20 25 30

Phe Val Phe Val Glu Thr Gly Phe His His Val Ser Gln Ala Gly

Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr 50 55 60

Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe 65 70 75 80

. 50

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<210> 1404
<211> 121
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1404
Lys Leu Arg Leu Arg Glu Val Lys Ser Ile Ala Gln Gly His Val Ala
Arg Ile Trp Gln Ser His Asp Ser Asp Pro Gly Leu Leu Ile Leu Ile
Pro Val Ser Phe Leu Ala Tyr His Val Ala Ser Lys Asp Cys Ser Ser
Leu Phe Thr Arg Lys Leu Phe Leu Pro Asn Leu His Leu His Leu Thr
Pro Ser Phe Leu Lys His Tyr Val Cys Val Phe Ile Ser Ile Ile Phe
Ile Val Phe Gly Ile His Val Leu Val Cys Val Trp Lys Lys Asn Leu
Phe Tyr Gln Leu Ala Leu Gly Pro Thr Trp Lys Lys Ser Leu Asn
Val Xaa Ala Met Tyr Ser Leu Lys Met
       115
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```
Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe 65 70 75 80
```

<210> 1406

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1406

Ile Trp Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr 1 5 10 15

Thr Ser Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys 20 25 30

Leu Val Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly 35 40 45

Met Met Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg 50 55 60

Tyr Val Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu 65 70 75 80

Cys Xaa Phe

<210> 1407

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1407

Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val 20 25 30

Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met 35 40 45

Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val 50 55 60

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp 65 70 75 80

Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile 85 90

<210> 1408

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1408

Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser 1 5 10 15

Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val 20 25 30

Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met 35  $\phantom{\bigg|}40\phantom{\bigg|}$ 

Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val 50 55 60

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp 65 70 75 80

Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile 85 90

<210> 1409

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1409

Met Ile Leu Ile Arg Lys Leu Phe Leu Arg Arg Cys His Trp Gly Gly 1 5 . 10 15

Trp Leu Leu Pro Pro Ala Arg Ala Ser Cys Ser Gly Lys His Ser Leu 20 25 30

Ser His Ser Cys Arg Gly Pro Arg Val Gln Arg Pro Pro His Pro Arg 35 40 45

Phe Trp Ala Gly Thr Leu Ala Pro Gly Pro Cys Pro Gly Leu Trp Cys
50 60

Leu Pro Gly Leu Val Gln Val Asp Val Leu Ala Ala Gly Arg Cys Asp 65 70 75 80

His Leu Ser Cys Leu Pro Pro Leu Cys Pro Gln Ala Phe Leu Leu 85 90 95

<210> 1410

<211> 92

<212> PRT

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<213> Homo sapiens
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<400> 1410

Met Pro Gly Cys Val Phe Cys Phe Leu Thr Leu Leu Phe His Ser Leu 1 5 10 15

Ser Val Gly Gln Tyr Cys Cys Leu Ile Cys Val Cys Phe Val Leu Tyr
20 25 30

Val Tyr Thr Gln Ile His Thr Arg Ile His Ile His Thr His Lys His
35 40 45

Phe Phe Pro Trp Arg Gln Gly Ile Ala Leu Ser Pro Arg Leu Glu 50 55 60

Tyr Ser Ser Ala Ile Met Thr His Arg Leu Ile Ala Ala Leu Ala Ser 65 70 75 80

Gln Ala Gln Ala Ile Leu Pro Pro Gln Pro Ser Glu 85 90

<210> 1411

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66).

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1411

Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
1 10 15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu 20 25 30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile 35 40 45

Leu Gly Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro 50 55 60

Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala 65 70 75 80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val 85 90 95

Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val 100 105 110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met 115 120 125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala 130 135 140

Pro Glu Glu Glu Glu Asn Ala Pro Ala His Pro Pro Cys Cys Leu Pro 145 150 155 160

Gli Thr Ser Pro Arg Ser His Asn Glu Ile Phe Val Glu Thr Glu Ala 165 170 175

Val Val Ser Val Tyr Met Leu Phe Ile Glu Glu Val Phe Trp Gln Lys 180 185 190

Ser Phe Val Leu Phe Phe Ser Gly Lys Lys Arg Lys Lys Ile Arg Leu 195 200 205

Ser Glu Ala Cys Phe Lys Glu Ala Leu Lys Cys Gly Leu Gly Phe Leu 210 215 220

Ser 225

<210> 1412

<211> 172

<212> PRT

<213> Homo sapiens

<400> 1412

Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys 1 5 10 15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu 20 25 30

Ile Asn Tyr Val Ser Phe Île Asn Tyr Leu Cys Tyr Gly Val Thr Ile 35 40 45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro 50 55 60

Ile Lys Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala 65 70 75 80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val 85 90 95

Gly Val Ile Ile Ile Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val 100 105 110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met 115 120 125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala 130 135 140

Pro Glu Glu Glu Glu Trp Pro Leu Pro Thr Leu Pro Ala Ala Cys

155

His Arg Gln Ala Leu Glu Ala Thr Met Arg Phe Leu 165 170

150

<210> 1413 <211> 225 <212> PRT <213> Homo sapiens <220>

<221> SITE <222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE <222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1413

Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
1 10 15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu 20 25 30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile 35 40 45

Leu Gly Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro 50 55 60

Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala 65 70 75 80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val 85 90 95

Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val 100 105 110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met 115 120 125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala 130 135 140

Pro Glu Glu Glu Glu Asn Ala Pro Ala His Pro Pro Cys Cys Leu Pro 145 150 155 160

Gln Thr Ser Pro Arg Ser His Asn Glu Ile Phe Val Glu Thr Glu Ala 165 170 175

Val Val Ser Val Tyr Met Leu Phe Ile Glu Glu Val Phe Trp Gln Lys 180 185 190

Ser Phe Val Leu Phe Phe Ser Gly Lys Lys Arg Lys Lys Ile Arg Leu

Ser Glu Ala Cys Phe Lys Glu Ala Leu Lys Cys Gly Leu Gly Phe Leu 210 215 220

Ser 225

<210> 1414

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1414

Lys Asp Lys Cys Ile Leu Leu Lys Arg Gln Ser Xaa Thr His Glu Glu
1 5 10 15

Gln Cys Lys Leu Lys Pro Asn Gln Arg Leu Gly Val Ala Ala Met Pro 20 25 30

Val Ile Pro Ala Leu Trp Glu Ala Glu Val Gly Arg Leu Leu Glu Ile 35 40 45

Arg Ser Leu Ser Leu Gly Asn Ile Val Lys Pro Cys Leu Tyr Lys Lys 50 55 60

Tyr Lys Asn 65

<210> 1415

<211> 587

<212> PRT

<213> Homo sapiens

<400> 1415

Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys
1 5 10 15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr 20 25 30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe 35 40 45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser 50 55 60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys
65 70 75 80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp

Cys	Ser	Ser	Val 100	Asp	Phe	Ser	Val	Phe 105	Ser	Ala	Cys	Ser	Val 110	Pro	Val
Val	Thr	Gly 115	Asp	Ser	Gln	Phe	Cys 120	Ser	Gln	Lys	Ala	Val 125	Ile	Tyr	Ser
Leu	Asn 130	Phe	Thr	Ala	Asn	Pro 135	Pro	Gln	Arg	Val	Phe 140	Glu	Leu	Val	Asp
Gln 145	Ile	Asn	Pro	Ser	Ile 150	Phe	Cys	Ile	His	Ile 155	Thr	Asn	Tyr	Lys	Pro 160
Ala	Leu	Ser	Phe	Ile 165	Asn	Pro	Glu		Pro 170	Asp	Glu	Asn	Asn	Phe 175	Asp
Thr	Leu	Met	Lys 180	Thr	Ser	Asp	Gly	Phe 185	Thr	Leu	Asn	Ala	Glu 190	Ser	Tyr
Val	Ser	Phe 195	Thr	Thr	Lys	Leu	Asp 200	Ile	Pro	Thr	Ala	Ala 205	Lys	Tyr	Glu
Tyr	Gly 210	Val	Pro	Leu	Gln	Thr 215	Ser	Asp	Ser	Phe	Leu 220	Arg	Phe	Pro	Ser
Ser 225	Leu	Thr	Ser	Ser	Leu 230	Cys	Thr	Asp	Asn	Asn 235	Pro	Ala	Ala	Phe	Leu 240
Val	Asn	Gln	Ala	Val 245	Lys	Cys	Thr	Arg	Lys 250	Ile	Asn	Leu	Glu	Gln 255	Cys
Glu	Glu	Ile	Glu 260	Ala	Leu	Ser	Met	Ala 265	Phe	Tyr	Ser	Ser	Pro 270	Glu	Ile
Leu	Arg	Val 275	Pro	Asp	Ser	Arg	Lys 280	Lys	Val	Pro	Ile	Thr 285	Val	Gln	Ser
Ile	Val 290	Ile	Gln	Ser	Leu	Asn 295	Lys	Thr	Leu	Thr	Arg 300	Arg	Glu	Asp	Thr
Asp 305	Val	Leu	Gln	Pro	Thr 310	Leu	Val	Asn	Ala	Gly 315	His	Phe	Ser	Leu	Cys 320
				325	Glu				330					335	
Gly	Glu	Val	Thr 340	Lys	Ala	Asp	Leu	Ser 345	Phe	Val	Leu	Gly	Thr 350	Val	Ser
Ser	Val	Val 355		Pro	Leu	Gln	Gln 360		Phe	Glu	Ile	His 365		Leu	Glr
	370				Val	375					380				
Gly 385	Leu	Pro	Leu	Ala	Ala 390	Gly	Phe	Gln	Pro	His 395		Gly	Ser	Gly	Il∈ 400
Ile	Gln	Thr	Thr	Asn	Arg	Tyr	Gly	Gln	Leu	Thr	Ile	Leu	His	Ser	Thi

Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu 425

Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala

Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly 455

Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln 475 470

Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn 485 490

Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys 505

Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn 520

Val Thr Ala Asn Leu Ile Ser Ser Phe Pro Glu Ala Asn Ser Gly 540

Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val 555 550

Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala

Arg Leu Pro Phe Asn Phe Phe Pro Phe Val 585 580

<210> 1416

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1416

Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys 65

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp 90

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val

Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser 115 120 125

Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp 130 135 140

Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn 145 150 155

<210> 1417

<211> 587

<212> PRT

<213> Homo sapiens

<400> 1417

Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys
10 15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr 20 25 30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe 35 40 45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser 50 55 60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys 65 70 75 80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp 85 90 95

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val 100 105 110

Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser 115 120 125

Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp 130 135 140

Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro 145 150 155 160

Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp 165 170 175

Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr 180 185 190

Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu 195 200 205 Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile . 265 Leu Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser 280 Ile Val Ile Gln Ser Leu Asn Lys Thr Leu Thr Arg Arg Glu Asp Thr 295 Asp Val Leu Gln Pro Thr Leu Val Asn Ala Gly His Phe Ser Leu Cys 315 Val Asn Val Val Leu Glu Val Lys Tyr Ser Leu Thr Tyr Thr Asp Ala Gly Glu Val Thr Lys Ala Asp Leu Ser Phe Val Leu Gly Thr Val Ser Ser Val Val Pro Leu Gln Gln Lys Phe Glu Ile His Phe Leu Gln 355 Glu Asn Thr Gln Pro Val Pro Leu Ser Gly Asn Pro Gly Tyr Val Val 375 Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro His Lys Gly Ser Gly Ile 390 Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu Thr Ile Leu His Ser Thr 405 410 Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu 425 420 Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala 440 Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln 475 470 Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn 490 485 Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys 505

Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn 515 520 525

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Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly 530  
Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val 545  
Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala 575  
Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val 585
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<210> 1418
<211> 137
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1418
Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu
                                     10
Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
                             40
Cys Gly Thr Xaa Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Gly Asn Val
Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
Gly Leu Met Ala Val Ala Ser Phe Thr Ile Gly Ile Cys His Leu Trp
                                105
            100
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Gly Asp Pro Thr Xaa Gly Pro Cys Ala Pro Arg His Gly Ala Trp Leu
115 120 125
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Val Gly Cys Gln Xaa Pro Cys Phe Xaa 130 135

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<210> 1419
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<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1419

Leu Lys Pro Phe Ser Gln Thr Pro Tyr Phe Glu Ser Pro Ser Phe Ser 1 5 10 15

Pro Ser Trp Gly Trp Arg Gln Glu Asp Met Trp Glu Ala Thr Glu Ala
20 25 30

Gly Ser Leu Cys Pro Leu Cys Gly Trp Gln Gly Ser Pro Gly Leu 35 40 45

Ile His Pro Leu Met Glu Pro Gln Glu Arg Arg Ala Pro Pro Lys Gly
50 55 60

Met Gln Leu Ala Ala Pro Leu Ser His Thr Cys Asp Pro Ser Val Arg 65 70 75 80

Gly His Pro Ala Leu Ala Glu Val Ser Xaa Thr Val Leu Arg Ala Leu 85 90 95

Pro Ser Cys Glu Phe Leu Pro Trp Arg Leu Phe Pro Gly Ala Glu Ser 100 105 110

Gly Pro Ala Ala Lys Leu Gln Ala Ser Gln Gly Trp Gly Gly Cys Gly
115 120 125

Thr Lys Val His Val Gly Pro Ser Thr Gly Cys Ser Arg Ser Trp Val 130 135 140

Pro Arg Ala Trp Gln Val Lys Leu Cys Arg Pro Ser Ala 145 150 155

<210> 1420

<211> 631

<212> PRT

<213> Homo sapiens

<400> 1420

Met Lys Leu Tyr Ala Leu Cys Thr Arg Ala Gln Pro Asp Gly Pro Trp
1 10 15

- Leu Lys Trp Thr Asp Lys Asp Ser Leu Leu Phe Met Val Glu Glu Pro
  20 25 30
- Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu Leu Ile Thr Val Leu 35 40 45
- Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn Leu Gly Leu Met Ala 50 55 60
- Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn Cys Gly Thr Glu Lys 65 70 75 80
- Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile Arg Arg Lys Gly Asn 85 90 95
- Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val Leu Val Asn Thr Ser
- Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser Gly Leu Met Ala Val
- Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly Glu Ile Leu Pro Gln 130 135 140
- Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly Ala Asn Thr Ile Leu 145 150 155 160
- Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro Leu Ser Phe Pro Ile 165 170 175
- Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Glu Ile Arg Thr Val Tyr 180 185 190
- Asn Arg Glu Lys Leu Met Glu Met Leu Lys Val Thr Glu Pro Tyr Asn 195 200 205
- Asp Leu Val Lys Glu Glu Leu Asn Met Ile Gln Gly Ala Leu Glu Leu 210 215 220
- Arg Thr Lys Thr Val Glu Asp Ile Met Thr Gln Leu Gln Asp Cys Phe 225 230 235 240
- Met Ile Arg Ser Asp Ala Ile Leu Asp Phe Asn Thr Met Ser Glu Ile 245 250 255
- Met Glu Ser Gly Tyr Thr Arg Ile Pro Val Phe Glu Asp Glu Gln Ser 260 265 270
- Asn Ile Val Asp Ile Leu Tyr Val Lys Asp Leu Ala Phe Val Asp Pro 275 280 285
- Asp Asp Cys Thr Pro Leu Lys Thr Ile Thr Arg Phe Tyr Asn His Pro 290 295 300
- Val His Phe Val Phe His Asp Thr Lys Leu Asp Ala Met Leu Glu Glu 305 310 315 320
- Phe Lys Lys Gly Lys Ser His Leu Ala Ile Val Gln Lys Val Asn Asn 325 330 335

- Glu Gly Glu Gly Asp Pro Phe Tyr Glu Val Leu Gly Leu Val Thr Leu 340 345 350
- Glu Asp Val Ile Glu Glu Ile Ile Lys Ser Glu Ile Leu Asp Glu Ser 355 360 365
- Asp Met Tyr Thr Asp Asn Arg Ser Arg Lys Arg Val Ser Glu Lys Asn 370 375 380
- Lys Arg Asp Phe Ser Ala Phe Lys Asp Ala Asp Asn Glu Leu Lys Val 385 390 395 400
- Lys Ile Ser Pro Gln Leu Leu Leu Ala Ala His Arg Phe Leu Ala Thr 405 410 415
- Glu Val Ser Gln Phe Ser Pro Ser Leu Ile Ser Glu Lys Ile Leu Leu 420 425 430
- Arg Leu Lys Tyr Pro Asp Val Ile Gln Glu Leu Lys Phe Asp Glu 435 440 445
- His Asn Lys Tyr Tyr Ala Arg His Tyr Leu Tyr Thr Arg Asn Lys Pro 450 455 460
- Ala Asp Tyr Phe Ile Leu Ile Leu Gln Gly Lys Val Glu Val Glu Ala 465 470 475 480
- Gly Lys Glu Asn Met Lys Phe Glu Thr Gly Ala Phe Ser Tyr Tyr Gly 485 490 495
- Thr Met Ala Leu Thr Ser Val Pro Ser Asp Arg Ser Pro Ala His Pro 500 505 510
- Thr Pro Leu Ser Arg Ser Ala Ser Leu Ser Tyr Pro Asp Arg Thr Asp 515 520 525
- Val Ser Thr Ala Ala Thr Leu Ala Gly Ser Ser Asn Gln Phe Gly Ser 530 540
- Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser Val Arg Ala Leu Val 545 550 560
- Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln Tyr Gln Asn Gly Leu 565 570 575
- Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe Pro Ile Asp Gly Cys 580 585 590
- Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser Glu Leu Pro Val Val 595 600 605
- Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn Ser Leu Leu His Lys 610 615 620
- Ala Ser His Glu Asn Ala Ile 625 630

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<210> 1421
<211> 83
<212> PRT
<213> Homo sapiens
<400> 1421
Met Gly Val Arg Val Trp Glu Leu Pro Ala Gln Pro Thr Gly Leu His
Leu Leu Cys Phe Cys Thr Arg Thr Met Leu Leu Ala Leu Lys Leu Pro
                                 25
Lys Thr Lys His Ser Phe Pro Asp Pro Tyr Thr Ser Ile Leu Ser Phe
Ile His Pro Ala Phe Thr Glu Asn Leu Thr Leu Cys Gln Val Ser Val
Phe Leu Ser Ser Ser Asn Thr Glu Met Asn Gln Met Phe His Gly Val
                                       . 75
Ser Phe Arg
<210> 1422
<211> 103
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1422
Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr
                                     10
                                                         15
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- Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu 20 25 30
- Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly 35 40 45
- Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser 50 60
- Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr 65 70 75 80
- Met Ser Ser Ile Phe Xaa Xaa Ser Leu Asn Val Val Xaa Xaa Phe Xaa 85 90 95
- Val Met Val Gl $\dot{y}$  Val Phe Arg 100
- <210> 1423
- <211> 384
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (96)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (131)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1423
- Gln Arg Gln Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His 1 5 10 15
- Gln Glu Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly 20 25 30
- Lys Ala Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro
  35 40 45
- Val Leu Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn 50 60
- Gln Arg Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala 65 70 75 80
- Gly Pro Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Xaa 85 90 95
- Lys Leu Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$
- Val Lys Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro 115 120 125

Ala Arg Xaa Ala Gly Gly Pro Glu Glu Arg Leu Ala Glu Glu Phe Pro 130 Gly Gln Ser Gln Asp Val Thr Gly Gly Ser Gln Asp Arg Lys Lys Pro Gly Lys Glu Val Ala Ala Thr Gly Thr Ser Ile Leu Lys Glu Ala Asn Trp Leu Val Ala Gly Pro Gly Ala Glu Thr Gly Asp Pro Arg Met Lys 180 185 Pro Lys Gln Val Ser Arg Asp Leu Gly Leu Ala Ala Asp Leu Pro Gly 200 195 Gly Ala Glu Gly Ala Ala Ala Gln Pro Gln Ala Val Leu Arg Gln Pro 215 Glu Leu Arg Val Ile Ser Asp Gly Glu Gln Gly Gly Gln Gln Gly His 225 230 Arg Leu Asp His Gly Gly His Leu Glu Met Arg Lys Ala Arg Gly Gly 250 Asp His Val Pro Val Ser His Glu Gln Pro Arg Gly Glu Asp Ala 265 Ala Val Gln Glu Pro Arg Gln Arg Pro Glu Pro Glu Leu Gly Leu Lys 280 Arg Ala Val Pro Gly Gly Gln Arg Pro Asp Asn Ala Lys Pro Asn Arg 295 300 Asp Leu Lys Leu Gln Ala Gly Ser Asp Leu Arg Arg Arg Arg Asp Leu Gly Pro His Ala Glu Gly Gln Leu Ala Pro Arg Asp Gly Val Ile Ile Gly Leu Asn Pro Leu Pro Asp Val Gln Val Asn Asp Leu Arg Gly 345

<210> 1424

<211> 973

<212> PRT

<213> Homo sapiens

<400> 1424

Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr

Ala Leu Asp Ala Gln Leu Arg Gln Ala Ala Gly Gly Ala Leu Gln Val 360

Val His Ser Arg Gln Leu Arg Gln Ala Pro Gly Pro Pro Glu Glu Ser

375

365

380

ossiste charact

-				_											
Thr	Val	Phe	Met 20	Phe	Val	Ile	Val	Leu 25	Ser	Ser	Leu	Lys	His 30	Gly	Leu
Phe	Ser	Gly 35	Gln	Trp	Leu	Arg	Arg 40	Val	Ser	Tyr	Val	Arg 45	Trp	Glu	Gly
Val	Phe 50	Arg	Cys	Ile	Pro	Ile 55		Gly	Met	Ser	Phe 60	Ala	Cys	Gln	Ser
Gln 65	Val	Leu	Pro	Thr	Туr 70	Asp	Ser	Leu	Asp	Glu 75	Pro	Ser	Val	Lys	Thr 80
Met	Ser	Ser	Ile	Phe 85	Ala	Ser	Ser	Leu	Asn 90	Val	Val	Thr	Thr	Phe 95	Tyr
Val	Met	Val	Gly 100	Phe	Phe	Gly	Tyr	Val 105	Ser	Phe	Thr	Glu	Ala 110	Thr	Ala
Gly	Asn	Val 115	Leu	Met	His	Phe	Pro 120	Ser	Asn	Leu	Val	Thr 125	Glu	Met	Leu
Arg	Val 130	Gly	Phe	Met	Met	Ser 135	Val	Ala	Val	Gly	Phe 140	Pro	Met	Met	Ile
Leu 145	Pro	Cys	Arg	Gln	Ala 150	Leu	Ser	Thr	Leu	Leu 155	Cys	Glu	Gln	Gln	Gln 160
Lys	Asp	Gly	Thr	Phe 165	Ala	Ala	Gly	Gly	Tyr 170	Met	Pro	Pro	Leu	Arg 175	Phe
Lys	Ala	Leu	Thr 180	Leu	Ser	Val	Val	Phe 185	Gly	Thr	Met	Val	Gly 190	Gly	Ile
Leu	Ile	Pro 195	Asn	Val	Glu	Thr	Ile 200	Leu	Gly	Leu	Thr	Gly 205	Ala	Thr	Met
Gly	Ser 210	Leu	Ile	Cys	Phe	Ile 215	Cys	Pro	Ala	Leu	Ile 220	Tyr	Lys	Lys	Ile
His 225	Lys	Asn	Ala	Leu	Ser 230	Ser	Gln	Val	Val	Leu 235	Trp	Val	Gly	Leu	Gly 240
Val	Leu	Val	Val	Ser 245	Thr	Val	Thr	Thr	Leu 250	Ser	Val	Ser	Glu	Glu 255	Val
Pro	Glu	Asp	Leu 260	Ala	Glu	Glu	Ala	Pro 265	Gly	Gly	Arg	Leu	Gly 270	Glu	Àla
Glu	Gly	Leu 275	Met	Lys	Val	Glu	Ala 280	Ala	Arg	Leu	Ser	Ala 285	Gln	Asp	Pro
Val	Val 290	Ala	Val	Ala	Glu	Asp 295	Gly	Arg	Glu	Lys	Pro 300	Lys	Leu	Pro	Lys
Glu 305	Arg	Glu	Glu	Leu	Glu 310	Gln	Ala	Gln	Ile	Lys 315	Gly	Pro	Vál	Asp	Val 320
Pro	Gly	Arg	Glu	Asp	Gly	Lys	Glu	Ala	Pro	Glu	Glu	Ala	Gln	Leu	Asp

Arg	Pro	Gly	Gln 340	Gly	Ile	Ala	Val	Pro 345	Val	Gly	Glu	Ala	His 350	Arg	His
Glu	Pro	Pro 355	Val	Pro	His	Asp	Lys 360	Val	Val	Val	Asp	Glu 365	Gly	Gln	Asp
Arg	Glu 370	Val	Pro	Glu	Glu	Asn 375	Lys	Pro	Pro	Ser	Arg 380	His	Ala	Gly	Gly
Lys 385	Ala	Pro	Gly	Val	Gln 390	Gly	Gln	Met	Ala	Pro 395	Pro	Leu	Pro	Asp	Ser 400
Glu	Arg	Glu	Lys	Gln 405	Glu	Pro	Glu	Gln	Gly 410	Glu	Val	Gly	Lys	Arg 415	Pro
Gly	Gln	Ala	Gln 420	Ala	Leu	Glu	Glu	Ala 425	Gly	Asp	Leu	Pro	Glu 430	Asp	Pro
Gln	Lys	Val 435	Pro	Glu	Ala	Asp	Gly 440	Gln	Pro	Ala	Val	Gln 445	Pro	Ala	Lys
Glu	Asp 450	Leu	Gly	Pro	Gly	Asp 455	Arg	Gly	Leu	His	Pro 460	Arg	Pro	Gln	Ala
Val 465	Leu	Ser	Glu	Gln	Gln 470	Asn	Gly	Leu	Ala	Val 475	Gly	Gly	Gly	Glu	Ļys 480
Ala	Lys	Gly	Gly	Pro 485	Pro	Pro	Gly	Asn	Ala 490	Ala	Gly	Asp	Thr	Gly 495	Gln
Pro	Ala	Glu	Asp 500	Ser	Asp	His	Gly	Gly 505	Lys	Pro	Pro	Leu	Pro 510	Ala	Glu
Lys	Pro	Ala 515	Pro	Gly	Pro	Gly	Leu 520	Pro	Pro	Glu	Pro	Arg 525	Glu	Gln	Arg
Asp	Val 530	Glu	Arg	Ala	Gly	Gly 535	Asn	Gln	Ala	Ala	Ser 540	Gln	Leu	Glu	Glu
Ala 545	Gly	Arg	Ala	Glu	Met 550	Leu	Asp $\sim$	His	Ala	Val 555	Leu	Leu	Gln	Val	Ile 560
Lys	Glu	Gln	Gln	Val 565	Gln	Gln	Lys	Arg	Leu 570	Leu	Asp	Gln	Gln	Glu 575	Lys
Leu	Leu	Ala	Val 580	Ile	Glu	Glu	Gln	His 585	Lys	Glu	Ile,	His	Gln 590	Gln	Arg
Gln	Glu	Asp	Glu	Glu	Asp	Lys	Pro	Arg	Gln	Val	Glu	Val	His	Gln	Glu

Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly Lys Ala

595

Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro Val Leu 625 630 635 640

Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn Gln Arg

Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala Gly Pro 660 665 670

Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Gly Lys Leu 675 680 685

Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr Val Lys 690 695 700

Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro Ala Arg 705 710 715 720

Glu Ala Gly Gly Pro Glu Glu Arg Leu Ala Glu Glu Phe Pro Gly Gln 725 730 735

Ser Gln Asp Val Thr Gly Gly Ser Gln Asp Arg Lys Lys Pro Gly Lys 740 745 750

Glu Val Ala Ala Thr Gly Thr Ser Ile Leu Lys Glu Ala Asn Trp Leu 755 760 765

Val Ala Gly Pro Gly Ala Glu Thr Gly Asp Pro Arg Met Lys Pro Lys 770 780

Gln Val Ser Arg Asp Leu Gly Leu Ala Ala Asp Leu Pro Gly Gly Ala 785 790 795 800

Glu Gly Ala Ala Ala Gln Pro Gln Ala Val Leu Arg Gln Pro Glu Leu 805 810 815

Arg Val Ile Ser Asp Gly Glu Gln Gly Gln Gln Gly His Arg Leu 820 825 830

Asp His Gly Gly His Leu Glu Met Arg Lys Ala Arg Gly Gly Asp His 835 840 845

Val Pro Val Ser His Glu Gln Pro Arg Gly Glu Asp Ala Ala Val 850 855 860

Gln Glu Pro Arg Gln Arg Pro Glu Pro Glu Leu Gly Leu Lys Arg Ala 865 870 875 880

Val Pro Gly Gly Gln Arg Pro Asp Asn Ala Lys Pro Asn Arg Asp Leu 885 890 895

Lys Leu Gln Ala Gly Ser Asp Leu Arg Arg Arg Arg Asp Leu Gly 900 905 910

Pro His Ala Glu Gly Gln Leu Ala Pro Arg Asp Gly Val Ile Gly Leu 915 920 925

Asn Pro Leu Pro Asp Val Gln Val Asn Asp Leu Arg Gly Ala Leu Asp 930 935 940

Ala Gln Leu Arg Gln Ala Ala Gly Gly Ala Leu Gln Val Val His Ser 945 950 955 960

Arg Gln Leu Arg Gln Ala Pro Gly Pro Pro Glu Glu Ser

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<210> 1425
<211> 110
<212> PRT
<213> Homo sapiens
<220>
<221> SITE ·
<222> (89)
<223> Kaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1425
Met Tyr Leu Gln Ile Pro Val Lys His Met Leu His Ser Gly Tyr Gln
Ala Thr Phe Phe Ser Pro Lys Ile Gly Cys Ser Ser Ile Leu Val Phe
Val Cys Leu Leu Val Phe Leu Arg Gln Ser Leu Ala Leu Leu Pro Arg
                             40
Leu Glu Tyr Ser Gly Ala Ile Leu Ala His Cys Asn Leu His Leu Leu
Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr
65
Gly Met His His His Thr Gln Leu Xaa Phe Cys Thr Phe Ser Arg Xaa
                                     90
Gly Ile Tyr Gln Leu Ala Ser Xaa Ser Pro Asn Pro Asp Leu
<210> 1426
<211> 57
<212> PRT
<213> Homo sapiens
<400> 1426
Phe Asn Thr Pro Lys Ile Phe Phe Gly Thr Tyr His Arg Gln Gly Thr
                                    10
Leu Ile Ser Thr Gly Asp Thr Ile Ser Cys Leu Gly Leu Leu Cys Ser
             20
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Ser Ala Ala Arg Glu Gly Ile Ala Ile Cys Arg Ile Leu Lys Lys His
35 40 45

Lys His Lys Gly Ala Lys Leu Tyr Ile 50 55

<210> 1427

<211> 127

<212> PRT

<213> Homo sapiens

<400> 1427

Met Leu His Ser Gly Tyr Gln Ala Thr Phe Phe Ser Pro Lys Ile Gly
1 5 10 15

Cys Ser Ser Ile Leu Val Phe Val Cys Leu Val Phe Leu Arg Gln 20 25 30

Ser Leu Ala Leu Leu Pro Arg Leu Glu Tyr Ser Gly Ala Ile Leu Ala 35 40 45

His Cys Asn Leu His Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala 50 55 60

Ser Pro Val Ala Gly Ile Thr Gly Met His His His Thr Gln Leu Phe 65 70 75 80

Phe Cys Thr Phe Ser Arg Asp Gly Ile Leu Pro Cys Trp Pro Gly Trp 85 90 95

Ser Pro Thr Pro Asp Leu Arg Gln Ser Thr Leu Leu Ser Leu Pro Lys 100 105 110

Cys Trp Asp Tyr Arg His Glu Pro Leu Arg Pro Ala Gln Ala Phe 115 120 125

<210> 1428

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1428

Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met 1 5 10 15

Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys 20 25 30

Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys 35 40 45

Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala 50 55 60

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys 65 70 75 80

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. <210> 1429
 <211> 73
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1429
 His Phe Ser Phe Trp Phe Ile His Phe Pro His Phe His Leu Lys Ile
 Leu Thr Lys Cys Leu Ala Glu Phe Ser Lys Tyr Asn Asn Phe Thr Leu
 Pro Ala Asp Asn Glu Xaa Ile Arg Val Gln Asn Pro Phe Gln Leu Ser
 Lys His Leu Leu Ser Leu Tyr Phe Val Ser Asp Thr Gly Val Lys Phe
 Trp Lys Cys Lys Arg Asn Leu His Leu
                       70
  65
 <210> 1430
 <211> 80
 <212> PRT
 <213> Homo sapiens
 <400> 1430
 Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met
                                       10
   1
 Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys
                                   25
              20
 Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys
          35
                               40
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Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys

.55

70

75

<210> 1431

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<211> 26
 <212> PRT
 <213> Homo sapiens
 <400> 1431
 Met Leu Arg Trp His Leu Trp Ser Trp Phe Cys Trp Phe Cys Leu Ser
 Glu Ala Gly Val Leu Leu Asp Leu Pro Thr
              20
 <210> 1432
 <211> 84
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
<221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1432
 Xaa Met Ser Arg Gln His Arg Leu Asn Pro His Gly Pro Asp Pro Ala
 Ala Pro His Arg Ala Cys Arg Leu Xaa Ser Pro Arg Gln Val Thr Trp
 Leu Thr Pro Ala Glu Ala Leu Pro Leu Xaa Pro Cys Pro Ser Gln Cys
 Gly Ala His Cys Arg Gln His Gly Pro Glu Arg Glu Gly Ser Ala Xaa
 Pro Ala Ala Leu Leu Arg Pro Gly Leu Pro Val Phe Gly His Xaa Leu
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<210> 1434 <211> 139 <212> PRT <213> Homo sapiens

<400> 1434
Met Ala Leu Arg Met Leu Trp Ala Gly Gln Ala Lys Gly Ile Leu Gly

Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Leu Gln His Pro 20 25 30

Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr 35 40 45

Glu Gly Lys Tyr Phe Thr Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys 50 55 60

Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr 65 70 75 80

Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu 85 90 95

Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu
100 105 110

Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr 115 120 125

Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser 130 135

, <210> 1435
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1435

Met Ala Leu Arg Met Leu Trp Ala Gly Gln Ala Lys Gly Ile Leu Gly
1 10 15

Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Gln His Pro 20 25 30

Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr 35 40 45

Glu Gly Lys Tyr Phe Thr Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys 50 60

Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr 65 70 75 80

Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu 85 90 95

Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu 100 105 110

Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr 115 120 125

Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser 130 135

<210> 1436

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1436

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala 1 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile 20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu 35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile 50 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn 65 70 75 80

<210> 1437

<211> 145.

<212> PRT

<213> Homo sapiens

Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr 20 25 30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro 35 40 45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe 50 55 60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala 65 70 75 80

Glu His Pro Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu 85 90 95

Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys 100 105 110

Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr 115 120 125

Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu 130 135 140

Gln 145

<210> 1438

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1438

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala 1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile 20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu 35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile 50 . 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn 65 70 75 80

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<211> 91
<212> PRT
<220>
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<213> Homo sapiens

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1439

Met Ala Ser Gln Val Pro Ser Ser Pro Phe Gln Ser Phe Phe Val Phe

Val Phe Val Phe Leu Arg Pro Ser His Ser Val Ala Gln Ala Gly Val 25

Pro Leu His Phe Tyr Phe Phe Ile Gln Gln Val Leu Ile Lys Cys Ala

Leu Tyr Gln Val Leu Ser Ser Xaa Leu Gly Tyr Asn Gly Asp Gln Gly

Asp Cys Arg Phe Trp Gln Gly Lys Leu Thr Ser Asn Thr Ala Thr Arg 65

His Ser Glu Thr Leu Ser Leu Leu Glu Glu Leu 85

<210> 1440 <211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1440

Met Ser Ala Lys Gln Val Thr Ser Gln Ser Ser Leu Ser Glu Asn Asp

Gly Phe Gln Ala Phe Val Trp Trp Leu Leu Gly Ile Gly Ala Leu Thr

Phe Ala Leu Leu Met Ser Ala Arg Met Gly Ile Phe Gln Glu Thr Leu

Tyr Lys Arg Phe Gly Lys His Ser Lys Glu Ala Leu Phe Tyr Asn His

Ala Leu Pro Leu Pro Gly Phe Val Phe Leu Ala Ser Asp Ile Tyr Asp 65

His Ala Val Leu Phe Asn Lys Ser Glu Leu Tyr Glu Ile Pro Val Ile 90

Gly Val Thr Leu Pro Ile Met Trp Phe Tyr Leu Leu Met Asn Ile Ile

110

Thr Gln Tyr Val Cys Ile Arg Gly Val Phe Ile Leu Thr Thr Gly Met 115 120 125

Arg Leu Pro Xaa Arg His Ala Arg Ser 130 135

<210> 1441

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1441

Pro Tyr Pro Phe Cys Xaa Pro Ser Pro Phe Pro Ser Ser Ala Ala Pro 1 5 10 15

His Ser Gln Ser Asp Ala Ala Gly Thr Thr Ile Thr Arg Ser Gly Gln 20 25 30

Val Asn Arg Asp Thr Ser Asn Ser Arg Ala Gly Leu Pro Pro Ala Phe 35 40 45

Trp Glu Gly Lys Arg Cys Ser Pro Glu Leu Ile Pro Ser Asp Ser Ala 50 55 60

Ala Arg Leu Val Gly Leu Leu Phe Pro Thr Phe Cys Phe Phe Phe 65 70 75 80

Leu Cys Lys Ser Gln Met Leu Leu Ser Ile Ala Phe Cys Asp

<210> 1442

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1442

Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His
1 5 10 15

Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn 20 25 30

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys 50 55 60

Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala 65 70 75 80

Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile 85 90 95

Lys Trp Cys Leu Phe Val Cys Xaa 100

<210> 1443

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1443

Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His 1 5 10 15

Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn 20 25 30

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys
50 55 60

Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala 65 70 75 80

Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile 85 90 95

Lys Trp Cys Leu Phe Val Cys Xaa 100

<210> 1444

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1444

Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser 1 5 10 15

Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu 20 25 30

Arg Val Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro 35 40 45

Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr 50 55 60

Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu 65 70 75 80

Arg Gly Arg Tyr Ile Gly Ser Ser 85

<210> 1445

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1445

Ser Gln Arg Ser Gly Arg Leu Arg Gln Glu Asp His Leu Arg Ser Gly 1 5 10 15

Val Gln Cys Gly Gln His Ser Lys Thr Leu Ser Leu Gln Lys Asn Leu 20 25 30

Lys Leu Ser Trp His Trp Trp Arg Met Ala Val Val Pro Ala Thr Trp 35 40 45

Glu Val Glu Val Gly Gly Ser Leu Glu Pro Arg Ser Ser Ser Leu Gln 50 55 60

<210> 1446

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1446

Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser 1 5 10 15

Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu 20 25 30

Arg Val Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro 35 40 45

Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr 50 55 60

Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu 65 70 75 80

Arg Gly Arg Tyr Ile Gly Ser Ser

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<210> 1447
<211> 82
<212> PRT
```

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1447

Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu 1 5 10 15

Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys
20 25 30

Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu 35 40 45

Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Xaa Phe Gln Ala 50 55 60

Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu 65 70 75 80

Asn Phe

<210> 1448

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1448

Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu 1 5 10 15

Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys 20 25 30

Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
35 40 45

Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Pro Phe Gln Ala 50 55 60

Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu 65 70 75 80

Asn Phe

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<210> 1449
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<213> Homo sapiens

<400> 1449

Met Gln Ser Phe His His Pro Leu Arg Ile Leu Leu Trp Leu Pro Leu 1 5 10 15

Val Thr Lys Lys Ser Leu Cys Pro Val His Lys Thr Met Thr Gln Leu 20 25 30

Ser Leu Val Leu Ala Ser Leu Ser Asn Ser Leu Ser Phe Gly Tyr Pro 35 40 45

Gly Phe Val Arg Ala Asn Arg Gln Thr Ser Leu Ile Gly Glu Phe Leu 50 55 60 .

Gly Gly Gly Grp His Ala Phe Ala Tyr Cys Phe Leu Ser Ala Glu 65 70 75 80

Asn Ala Ser Leu Ser Leu Ala Val Ser Ala Thr Pro Pro Asp Leu Val 85 90 95

Ser Leu Ile Cys Leu Ser Gln 100

<210> 1450

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1450

Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu 1 5 10 15

Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu 20 25 30

Xaa Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala 35 40 45

Leu Leu 50

<210> 1451

<211> 130

<212> PRT

<213> Homo sapiens

<sup>&</sup>lt;211> 103

<sup>&</sup>lt;212> PRT

His Pro 130

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<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1451
Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu Leu Gln
Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu Xaa Ala
Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala Leu Tyr
Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln Ile Lys Ala
Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg Asn Ser Gly
Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln Ala Tyr Val
Val Leu Gly Ser Ala Pro Ser Val Ala Ser Met Ile Ala Ala Tyr Ser
                                 105
            100
Ala Thr Xaa Xaa Cys Ala Asp Leu Ala Xaa Gly Leu Gln Xaa Xaa Arg
                             120
```

876

<210> 1452

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1452

Leu Asn Pro Trp Pro Leu Ile Val Tyr Leu Cys Trp Asp Pro Lys Glu
1 5 10 15

Leu Tyr Ser Pro Cys Pro Pro Arg Pro Ala Gln Leu Ser Arg 20 25 30

<210> 1453

<211> 226

<212> PRT

<213> Homo sapiens

<400> 1453

Met Ala Ala Met Arg Trp Arg Trp Gln Arg Leu Leu Pro Trp Arg

1 10 15

Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly
20 25 30

Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr 35 40 45

Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln 50 60

Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg 65 70 75 80

Ala Tyr Val Val Leu Gly Ser Ala Thr Leu Arg Arg Lys Tyr Asp Arg 100 105 110

Gly Leu Leu Ser Asp Glu Asp Leu Arg Gly Pro Gly Val Arg Pro Ser 115 120 125

Arg Thr Pro Ala Pro Asp Pro Gly Ser Pro Arg Thr Pro Pro Pro Thr 130 135 140

Ser Arg Thr His Asp Gly Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr 145 150 155 160

Met Phe Asn Phe Asp Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu 165 170 175

Glu Arg Glu Arg Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg 180 185 190

Gln Glu Tyr Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp 195 200 205

Thr Ala Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Gly Phe

Tyr Ile 225

<210> 1454

<211> 302

<212> PRT

<213> Homo sapiens

<400> 1454

Met Leu Val Thr Asn Arg Pro Gly Val Leu Lys Glu Pro Lys Leu Met
1 5 10 15

Gly Ala Ile Ser Phe Phe Ile Phe Phe Phe Thr Leu Leu Val Leu Ala 20 25 30

Arg Gln Asn Glu Tyr Tyr Cys Arg Leu Asp Phe Leu Trp Lys Lys 45

Leu Arg Gln Glu Arg Glu Glu Thr Glu Thr Met Glu Asn Leu Thr Arg 50 55 60

Leu Leu Glu Asn Val Leu Pro Ala His Val Ala Pro Gln Phe Ile 65 70 75 80

Gly Gln Asn Arg Arg Asn Glu Asp Leu Tyr His Gln Ser Tyr Glu Cys
85 90 95

Val Cys Val Leu Phe Ala Ser Val Pro Asp Phe Lys Glu Phe Tyr Ser 100 105 110

Glu Ser Asn Ile Asn His Glu Gly Leu Glu Cys Leu Arg Leu Leu Asn 115 120 125

Glu Ile Ile Ala Asp Phe Asp Glu Leu Leu Ser Lys Pro Lys Phe Ser 130 135 140

Gly Val Glu Lys Ile Lys Thr Ile Gly Ser Thr Tyr Met Ala Ala Thr 145 150 155 160

Gly Leu Asn Ala Thr Ser Gly Gln Asp Ala Gln Gln Asp Ala Glu Arg 165 170 175

Ser Cys Ser His Leu Gly Thr Met Val Glu Phe Ala Val Ala Leu Gly
180 185 190

Ser Lys Leu Asp Val Ile Asn Lys His Ser Phe Asn Asn Phe Arg Leu 195 200 205

Arg Val Gly Leu Asn His Gly Pro Val Val Ala Gly Val Ile Gly Ala 210 215 220

Gln Lys Pro Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala Ser 225 230 235 240

Arg Met Glu Ser Thr Gly Val Leu Gly Lys Ile Gln Val Thr Glu Glu 245 250 255

Thr Ala Trp Ala Leu Gln Ser Leu Gly Tyr Thr Cys Tyr Ser Arg Gly 260 265 270

Val Ile Lys Val Lys Gly Lys Gly Gln Leu Cys Thr Tyr Phe Leu Asn 275 280 285

Thr Asp Leu Thr Arg Thr Gly Pro Pro Ser Ala Thr Leu Gly 290 295 300

<210> 1455

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1455

Met Gly Pro Phe Phe Pro Tyr Ser Leu Leu Xaa Phe Phe Pro Cys Ser 1 5 10 15

Phe Ser Ser Pro Ser Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly
20 25 30

Cys Ser Leu Phe Pro Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe 35 40 45

Ser Gln Ser Leu Ser Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp 50 55 60

Cys Phe Phe Thr Leu Gly Pro Ser Ser Tyr Leu Leu 65 70 75

<210> 1456

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1456

Thr Leu Thr Gln His Gln Gly Ala His Leu Gly Pro Phe Leu Asp Met
1 5 10 15

Ser Phe Leu His Tyr His Ser His Glu Pro Pro Thr Ser Gly Ile Ala 20 25 30

Asp Gln Gly Trp Gly Glu Asn Val Ala Cys Cys Phe Leu Val Leu Val
35 40 45

Ile Ile Tyr Leu Asn Lys Gln Cys Cys Lys Tyr Leu Pro 50 55 60

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<210> 1457
<211> 110
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1457
Met Arg Leu Ser Cys Pro Arg Xaa Pro Gly Trp Met Gly Pro Phe Phe
Pro Tyr Ser Leu Leu Ser Phe Phe Pro Cys Ser Phe Ser Ser Pro Ser
             20
Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly Cys Ser Leu Phe Pro
Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe Ser Gln Ser Leu Ser
Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp Cys Phe Phe Thr Leu
Gly Pro Ser Ser Ile Phe Val Phe Ser Val Tyr Pro Leu Pro Asp Thr
Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu Asn Gln Cys
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<210> 1458 <211> 99 <212> PRT <213> Homo sapiens

<400> 1458

Met Gly Pro Phe Phe Pro Tyr Ser Leu Leu Ser Phe Phe Pro Cys Ser 1 5 10 15

Phe Ser Ser Pro Ser Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly
20 25 30

Cys Ser Leu Phe Pro Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe 35 40 45

Ser Gln Ser Leu Ser Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp 50 55 60

Cys Phe Phe Thr Leu Gly Pro Ser Ser Ile Phe Val Phe Ser Val Tyr 65 70 75 80

Pro Leu Pro Asp Thr Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu 85 90 95

Asn Gln Cys

<210> 1459

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1459

Met Phe Ile Cys Phe Leu Thr Leu Leu Thr Pro Gly Phe Ser Leu Ser  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Arg Arg Lys His Tyr Leu Ile Thr Phe Arg Trp Phe Thr Tyr Ser 20 25 30

Val Lys Asn Met Cys Lys Tyr Phe Val Gln Ser Pro Val Ser Asn Lys 35 40 45

Gln Pro Tyr Val Val Thr Asn His Leu Phe Cys His Ser Val Leu Gly 50 55 60

His Arg Ser Val Gly Met Val Ser Asp Leu Asp Ala Pro Thr Phe His 65 70 75 80

Val Arg Pro Arg Thr Val Pro Trp Ser Val Asp Ser Trp Ser Ala Leu 85 90 95

Thr Gly

<210> 1460

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1460

Met Phe Ile Cys Phe Leu Thr Leu Leu Thr Pro Gly Phe Ser Leu Ser 1 10 15

Leu Arg Arg Lys His Tyr Leu Ile Thr Phe Arg Trp Phe Thr Tyr Ser 20 25 30

Val Lys Asn Met Cys Lys Tyr Phe Val Gln Ser Pro Val Ser Asn Lys 35 40 45

Gln Pro Tyr Val Val Thr Asn His Leu Phe Cys His Ser Val Leu Gly 50 55 60

His Arg Ser Val Gly Met Val Ser Asp Leu Asp Ala Pro Thr Phe His 65 70 75 80

Val Arg Pro Arg Thr Val Pro Trp Ser Val Asp Ser Trp Ser Ala Leu
85 90 95

Thr Gly

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<210> 1461
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<211> 33

<212> PRT

<213> Homo sapiens

<400> 1461

Met Leu Val Leu Val Ser Gly Ile Ile Phe Ser Leu Ala Asp Arg Ser 1 5 10 15

Ser Ser Ser Thr Ile Arg Met Asp Ala Leu Ala Phe Leu Gln Gly Leu 20 25 30

Leu

<210> 1462

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1462

Met Leu Val Leu Val Ser Gly Ile Ile Phe Ser Leu Ala Asp Arg Ser 1 5 10 15

Ser Ser Ser Thr Ile Arg Met Asp Ala Leu Ala Phe Leu Gln Gly Leu 20 25 30

Leu Gly Thr Glu Pro Ala Glu Ala Phe His Pro His Leu Pro Ile Leu 35 40 45

Leu Pro Pro Val Met Ala Cys Val Ala Asp Pro Phe Tyr Lys Ile Ala 50 55 60

Ala Arg Gly Pro Gly Gly Ala Ala Gly Ala Gly Ala Gly Pro Val Ala 65 70 75 80

Ala Ala Gln Ala Ser Asp Ala Gly Ser 85

<210> 1463

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1463

Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val 1 5 10 15

Tyr Gly Phe Met Met Leu Val Leu Val Ile Leu Cys Ile Val Thr Val
20 25 30

Cys Val Thr Ile Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr 35 40 45

Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr

Val Tyr Met Tyr Ser Phe Tyr Tyr Tyr Phe Phe Lys Thr Lys Met Tyr 65 70 75 80

Gly Leu Phe Gln Thr Ser Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser 85 90 95

Thr Ala Leu Gly Ile Met Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser 100 105 110

Ala Phe Val Arg Lys Ile Tyr Thr Asn Val Lys Ile Asp 115 120 125

<210> 1464

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1464

Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val 1 5 10 15

Tyr Gly Phe Met Met Leu Val Leu Val Ile Leu Cys Ile Val Thr Val 20 25 30

Cys Val Thr Ile Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr 35 40 45

Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr 50 55 60

Val Tyr Met Tyr Ser Phe Tyr Tyr Tyr Phe Phe Lys Thr Lys Met Tyr 65 70 75 80

Gly Leu Phe Gln Thr Ser Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser 85 90 95

Thr Ala Leu Gly Ile Met Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser 100 105 110

Ala Phe Val Arg Lys Ile Tyr Thr Asn Val Lys Ile Asp 115 120 125

<210> 1465

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1465

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys

1 10 15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys 20 25 30

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Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp 35 40 45
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Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys 50 55 60

Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro 65 70 75 80

Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp 85 90 95

Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
100 105 110

Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe 115 120 125

Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp 130 135 140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu 145 150 155 160

Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala 165 170 175

Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
180 . 185 190

Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys 195 200 205

Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg 210 215 220

Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser 225 230 235 240

Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe 245 250

<210> 1466

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1466

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
1 5 10 15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
20 25 30

Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
35 40 45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys

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Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe 120 Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp 130 Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala 165 Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val 185 Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys 200 205 195 Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg 215 Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser 235 Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe

Arg Gly Arg Ser Pro Gin Asn Ser Ala Phe 245 250

<210> 1467

<211> 388

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1467

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr 1 5 10 15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile 20 25 30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe 35 40 45

- Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu 50 55 60
- Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys 65 70 75 80
- Phe Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu 85 90 95
- Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly 100 105 110
- Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro 115 120 125
- Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg 130 135 140
- Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu 145 150 155 160
- Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys 165 170 175
- Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro 180 185 190
- Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp
  195 200 205
- Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala 210 215 220
- Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro 225 230 235 240
- Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu \$245\$ \$250\$ \$255\$
- Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile 260 265 270
- Phe Gln Leu Ala Xaa Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr 275 280 285
- Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe 290 295 300
- Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser 305 310 315 320
- Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln 325 330 335
- Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu 340 345 350
- Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His 355 360 365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu 370 375 380

Pro Ala Pro Cys 385

<210> 1468

<211> 388

<212> PRT

<213> Homo sapiens

<400> 1468

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr 1 5 10 15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile 20 25 30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe 35 40 45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu 50 55 60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys
65 70 75 80

Phe Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu 85 90 95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
100 105 110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro
115 120 125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg 130 135 140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu 145 150 155 160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys 165 170 175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro 180 185 190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp 195 200 205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala 210 215 220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro 225 230 235 240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu

245 250 255

Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile
260 265 270

Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr 275 280 285

Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe 290 295 300

Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser 305 310 315 320

Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln 325 330 335

Ile Ala Val Pro Cys Ala Phe Leu Leu Arg Leu Leu Val Gly Leu 340 345 350

Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His 355 360 365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu 370 375 380

Pro Ala Pro Cys

<210> 1469

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1469

Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Pro Leu 1 5 10 15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His 20 25 30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg 35 40 45

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
50 55 60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly 65 70 75 80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp 85 90 95 Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe 100 105 110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser 115 120 125

Ser Phe Gln Ala Asn Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly 130 135 140

Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile 145 150 155 160

Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu 165 170 175

Val Phe Ala Phe Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro 180 185 190

Ile Leu Ser Val Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu 195 200 205

Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp 210 215 220

Pro Glu Glu Pro Asp Gly Xaa Glu Leu Val Leu Gly Gly Ser Asp Pro 225 230 235 240

Ala His Tyr Ile Pro Pro Ser Pro Phe Val Pro Val Arg Ser Pro Pro 245 250 255

Met Ala Asp Pro Gln Gly 260

<210> 1470

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1470

Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Leu Pro Leu 1 5 10 15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His 20 25 30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg 35  $\phantom{\bigg|}40\phantom{\bigg|}45\phantom{\bigg|}$ 

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
50 55 60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly 65 70 75 80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe

110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser 115 120 125

Ser Phe Arg Pro Met Gly Pro Ser Leu Pro Phe Asn Met Glu Leu Gly 130 135 140

Gly 145

<210> 1471

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1471

Gly Ser Ala Gly Thr Ala Arg Ile Xaa Gly Ser Thr Thr Arg Pro Asp 1 5 10 15

Pro Glu Glu Pro Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro
20 25 30

Ala His Tyr Ile Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala 35 40 45

Tyr Trp Gln Ile His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr 50 55 60

Leu Cys Ala Lys Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu 65 70 75 80

Ile Thr Gly Pro Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly
85 90 95

Gly Ile Pro Leu Leu Ala Gly Glu Tyr Ile Ile Leu Cys Ser Glu Ile 100 105 110

Pro Lys Leu Pro Ala Val Ser Phe Leu Leu Gly Gly Val Trp Phe Asn 115 120 125

Leu Thr Ala His Asp Tyr Val Ile Gln Thr Thr Arg Asn Gly Val Arg 130 135 140

Leu Cys Leu Ser Gly Phe Gln Ala Leu Asp Val Pro Pro Pro Ala Gly
145 150 155 160

Pro Phe Trp Ile Leu Gly Asp Val Phe Leu Gly Thr Tyr Val Ala Val 165 170 175

Phe Asp Arg Gly Asp Met Lys Ser Ser Ala Arg Val Gly Leu Ala Arg 180 185 190

Ala Arg Thr Arg Gly Ala Asp Leu Gly Trp Gly Glu Thr Ala Gln Ala 195 200 205

Gln Phe Pro Gly 210

<210> 1472

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1472

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr 20. 25 30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser 35 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp 50 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Lys Val Gln 65 70 75 80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn 85 90 95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn 100 105 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro 130 135 140

Ile Ser Ile Met Ile Cys 145 150

<210> 1473

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1473

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser 35 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp 50 . 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln 65 70 75 80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn 85 90 95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn 100 105 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro 130 135 140

Ile Ser Ile Met Ile Cys 145 150

<210>. 1474

<211> 353

<212> PRT

<213> Homo sapiens

<400> 1474

Met Arg Tyr Leu Leu Pro Ser Val Val Leu Leu Gly Thr Ala Pro Thr 1 5 10 15

Tyr Val Leu Ala Trp Gly Val Trp Arg Leu Leu Ser Ala Phe Leu Pro 20 25 30

Ala Arg Phe Tyr Gln Ala Leu Asp Asp Arg Leu Tyr Cys Val Tyr Gln 35 40 45

Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu 50 55 60

Leu Tyr Gly Asp Leu Pro Lys Asn Lys Glu Asn Ile Ile Tyr Leu Ala 65 70 75 80

Asn His Gln Ser Thr Val Asp Trp Ile Val Ala Asp Ile Leu Ala Ile 85 90 95

Arg Gln Asn Ala Leu Gly His Val Arg Tyr Val Leu Lys Glu Gly Leu
100 105 110

Lys Trp Leu Pro Leu Tyr Gly Cys Tyr Phe Ala Gln His Gly Gly Ile 115 120 125

Tyr Val Lys Arg Ser Ala Lys Phe Asn Glu Lys Glu Met Arg Asn Lys 130 135 140

Leu Gln Ser Tyr Val Asp Ala Gly Thr Pro Met Tyr Leu Val Ile Phe 145 150 155 160

Pro Glu Gly Thr Arg Tyr Asn Pro Glu Gln Thr Lys Val Leu Ser Ala 165 170 175

Ser Gln Ala Phe Ala Ala Gln Arg Gly Leu Ala Val Leu Lys His Val 180 185 190

Leu Thr Pro Arg Ile Lys Ala Thr His Val Ala Phe Asp Cys Met Lys
195 200 205

Asn Tyr Leu Asp Ala Ile Tyr Asp Val Thr Val Val Tyr Glu Gly Lys 210 215 220

Asp Asp Gly Gln Arg Arg Glu Ser Pro Thr Met Thr Glu Phe Leu 225 230 235 240

Cys Lys Glu Cys Pro Lys Ile His Ile His Ile Asp Arg Ile Asp Lys 245 250 255

Lys Asp Val Pro Glu Glu Gln Glu His Met Arg Arg Trp Leu His Glu 260 265 270

Arg Phe Glu Ile Lys Asp Lys Met Leu Ile Glu Phe Tyr Glu Ser Pro 275 280 285

Asp Pro Glu Arg Arg Lys Arg Phe Pro Gly Lys Ser Val Asn Ser Lys 290 295 300

Leu Ser Ile Lys Lys Thr Leu Pro Ser Met Leu Ile Leu Ser Gly Leu 305 310 315 320

Thr Ala Gly Met Leu Met Thr Asp Ala Gly Arg Lys Leu Tyr Val Asn 325 330 335

Thr Trp Ile Tyr Gly Thr Leu Leu Gly Cys Leu Trp Val Thr Ile Lys 340 345 350

Ala

<210> 1475

<211> 353

<212> PRT

<213> Homo sapiens

<400> 1475

Met Arg Tyr Leu Leu Pro Ser Val Val Leu Leu Gly Thr Ala Pro Thr 1 5 10 15

Tyr Val Leu Ala Trp Gly Val Trp Arg Leu Leu Ser Ala Phe Leu Pro 20 25 30

Ala Arg Phe Tyr Gln Ala Leu Asp Asp Arg Leu Tyr Cys Val Tyr Gln 35 40 45

Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu 50 55 60

Leu Tyr Gly Asp Leu Pro Lys Asn Lys Glu Asn Ile Ile Tyr Leu Ala

Asn His Gln Ser Thr Val Asp Trp Ile Val Ala Asp Ile Leu Ala Ile 85 90 95

70

Arg Gln Asn Ala Leu Gly His Val Arg Tyr Val Leu Lys Glu Gly Leu 100 105 110

Lys Trp Leu Pro Leu Tyr Gly Cys Tyr Phe Ala Gln His Gly Gly Ile 115 120 125

Tyr Val Lys Arg Ser Ala Lys Phe Asn Glu Lys Glu Met Arg Asn Lys 130 135 140

Leu Gln Ser Tyr Val Asp Ala Gly Thr Pro Met Tyr Leu Val Ile Phe 145 150 155 160

Pro Glu Gly Thr Arg Tyr Asn Pro Glu Gln Thr Lys Val Leu Ser Ala 165 170 175

Ser Gln Ala Phe Ala Ala Gln Arg Gly Leu Ala Val Leu Lys His Val 180 185 190

Leu Thr Pro Arg Ile Lys Ala Thr His Val Ala Phe Asp Cys Met Lys 195 200 205

Asn Tyr Leu Asp Ala Ile Tyr Asp Val Thr Val Val Tyr Glu Gly Lys 210 215 220

Asp Asp Gly Gly Gln Arg Arg Glu Ser Pro Thr Met Thr Glu Phe Leu 225 230 235 240

Cys Lys Glu Cys Pro Lys Ile His Ile His Ile Asp Arg Ile Asp Lys 245 250 255

Lys Asp Val Pro Glu Glu Glu His Met Arg Arg Trp Leu His Glu 260 265 270

Arg Phe Glu Ile Lys Asp Lys Met Leu Ile Glu Phe Tyr Glu Ser Pro 275 280 285

Asp Pro Glu Arg Arg Lys Arg Phe Pro Gly Lys Ser Val Asn Ser Lys 290 295 300

Leu Ser Ile Lys Lys Thr Leu Pro Ser Met Leu Ile Leu Ser Gly Leu 305 310 315 320

Thr Ala Gly Met Leu Met Thr Asp Ala Gly Arg Lys Leu Tyr Val Asn 325 330 335

Thr Trp Ile Tyr Gly Thr Leu Leu Gly Cys Leu Trp Val Thr Ile Lys 340 345 350

Ala

<210> 1476 <211> 80

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<212> PRT
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<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1476

Met Thr His Cys Leu Leu His Gly Met Gly Xaa Ala Gly Ala Ala Ser 1 5 10 15

Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu 20 25 30

Trp Leu Ala Ala Val Ala Val Met Val Gln Met Ala Ala Leu Cys Gly 35 40 45

Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln 50 55 60

Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys 65 70 75 80

<210> 1477

<211> 415

<212> PRT

<213> Homo sapiens

<400> 1477

Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly 1 5 10 15

Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro 20 25 30

Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys 35 40 45

Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp 50 55 60

Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg 65 70 75 80

Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser 85 90 95

His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala 100 105 110

Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys
115 120 125

Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val

130 135 140

Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn 145 150 155 160

Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr 165 170 175

Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe 180 185 190

Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser 195 200 205

Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg 210 215 220

Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn 225 230 235 240

Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Pro Trp Leu Arg 245 250 255

Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn 260 265 270

Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp 275 280 285

Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu 290 295 300

Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly 305 310 315 320

Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser 325 330 335

Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln 340 345 350

Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser 355 360 365

Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly 370 375 380

Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val 385 390 395 400

Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly
405 410 415

<210> 1478

<211> 86

<212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1478
 Met Ser Leu Gly Gly Ser Gln Ser Ser Leu Val Ser Trp Arg Ala Thr
 Gln Ile Ala Cys Met Thr Leu Ser Trp Pro Leu Trp Thr Cys Trp Leu
 Ala Ala Pro Leu Ser Leu Thr Lys Ser Pro Trp Arg Gln Trp Ser Thr
 His Val Lys Gly Phe Asn Leu Ala Ser Ser Gln Ala Glu Val Gln Pro
 Val Gly Gln Thr Leu Ala Ser Glu Lys Lys Xaa Leu Gln Glu Val Leu
 Ala Arg Ala Ile Gln His
 <210> 1479
 <211> 159
 <212> PRT
 <213> Homo sapiens
<220>
 <221> SITE
 <222> (153)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
<222> (158)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1479
 Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys
 Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala
 Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp
 Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
 Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Thr
 Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Val Asp
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Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp 100 105 110
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Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly 115 120 125

Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr 130 135 140

Asn His Ile Lys Ile Thr Phe Lys Xaa Asp Asp Tyr Phe Xaa Ala 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155

<210> 1480

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1480

Leu Ile Ile Lys Lys Gly Lys Ile Trp Phe Pro Glu Lys Arg Pro Ile
1 5 10 15

Pro Lys His Phe Phe His Glu Lys His Cys Ile Leu Thr Tyr Val Asp 20 25 30

Xaa Asn Asn Leu Ser Pro Lys Pro Cys His Asn Asn Ile Ser Ala Leu  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Glu Ile Lys Ser Leu Cys Phe Leu Cys Ile Leu Leu Arg His Xaa Tyr 50 60

Ser Phe Asn Thr Tyr Leu Lys Asn Leu Leu Arg Arg Phe Phe Ile Ile 65 70 75 80

Val Leu Gln Lys Thr Met Tyr Lys Leu 85

<210> 1481

<211> 370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids.

Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala 20 25 30

Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp  $$^{\circ}$$  45

Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
50 55 60

Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr 65 70 75 80

Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp 85 90 95

Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp 100 105 110

Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly 115 120 125

Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr 130 135 140

Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys 145 150 155 160

Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala 165 170 175

Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly
180 185 190

Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp 195 200 205

Ala Leu Asp Lys Lys Ile Ala Xaa Phe Asp Thr Val Glu Asp Leu Leu 210 215 220

Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr 225 230 235 240

Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser 245 250 255

Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys 260 265 270

Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala 275 280 285

Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly 290 295 300 .

Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser 305 310 315 320

Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly 325 330 335

His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile  $340 \hspace{1.5cm} 345 \hspace{1.5cm} 350$ 

Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro 355 360 365

Pro Arg 370

<210> 1482

<211> 370

<212> PRT

<213> Homo sapiens

<400> 1482

Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys

1 10 15

Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala 20 25 30

Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp 35 40 45

Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val 50 60

Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr 65 70 75 80

Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp 85 90 95

Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp 100 105 110

Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly 115 120 125

Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr 130 135 140

Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys 145 150 155 160

Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala 165 170 175

Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly
180 185 190

Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp 195 200 205

- Ala Leu Asp Lys Lys Ile Ala Glu Phe Asp Thr Val Glu Asp Leu Leu 210 215 220
- Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr 225 230 235 240
- Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser 245 250 255
- Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys 260 265 270
- Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala 275 · 280 285
- Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly 290 295 300
- Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser 305 310 315 320
- Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly 325 330 335
- His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile  $340 \hspace{1.5cm} 345 \hspace{1.5cm} 350$
- Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro 355 360 365

Pro Arg 370

- <210> 1483
- <211> 229
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (206)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1483
- Met Tyr Lys Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala 1 5 10 15
- Leu Leu Ile Gln Phe Pro Arg Lys Leu Cys Gly Leu Cys Pro Gly
  20 25 30
- Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu 35 40 45
- Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe 50 60
- Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu 65 70 75 80

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Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala 85 90 95
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Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Pro Leu Val Leu 100 105 110

Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe 115 120 125

Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser 130 135 140

Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr 145 150 155 160

Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu 165 170 175

Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn 180 185 190

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu 195 200 205

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser 210 215 220

Thr Lys Pro Ala Leu 225

<210> 1484

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1484

Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu Leu Leu Ile Ser Arg 1 5 10 15

Ser Gln Thr Phe Gly Tyr Asn Gly Arg Ala Cys Gln Glu Trp Leu Pro 20 25 30

Xaa Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn 35 40 45

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu 50 55 60

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser 65 70 75 80

Thr Lys Pro Ala Leu 85

<210> 1485

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1485

Met Tyr Lys Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala 1 5 10 15

Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly 20 25 30

Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu 35 40 45

Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe 50 55 60

Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu 65 70 75 80

Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala 85 90 95

Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu 100 105 110

Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe 115 120 125

Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser 130 135 140

Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr 145 150 155 160

Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu 165 170 175

Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn 180 185 190

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu 195 200 205

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser

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Thr Lys Pro Ala Leu
225
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<210> 1486
<211> 93
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<212> PRT

<213> Homo sapiens

<400> 1486

Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala 1 5 10 15

Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys 20 25 30

Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn 35 40 45

Phe Asn Leu Leu Phe Ser Gly Pro Ile Ser Lys Tyr Ser Leu Ile Leu 50 55 60

Arg Tyr Trp Tyr Leu Gly Leu Gln His Thr Asn Phe Gly Val Asp Thr 65 70 75 80

Ile Gln Pro Ile Thr Asn Cys Ala His Glu Met Ile Tyr 85 90

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<210> 1487
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<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1487

Ala Leu Pro Phe Thr Leu Asn Lys Thr Ser Asn Tyr Pro Gln Asp Leu
1 5 10 15

Val Leu Xaa Ser Leu Leu Gly Xaa Asn Tyr Xaa Gln Leu Gln Ile 20 25 30

Leu Leu Glu Cys Ile Phe Pro Val Pro His Ser Leu Leu Tyr Val Val 35 40 45

Leu Pro Asn Ser Ile Asp Leu Xaa Gln Lys Leu Pro Arg Asp Leu Pro 50 55 60

His Leu Pro Cys Pro Xaa Phe Leu Trp Pro Arg Pro Gly Ser Pro Pro 65 70 75 80

Lys Cys Phe Leu Ser Leu Ser Leu Thr Ala Leu Pro Leu Ser Ser Cys 85 90 95

Arg Tyr Thr Leu Pro Pro Ser Pro His Pro Leu Met Pro Ser Pro Leu 100 105 110

Leu Pro Ser Trp Val Gln Pro Ser Cys Tyr Leu Ala 115 120

<210> 1488

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1488

Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala 1 10 15

Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys 20 25 30

Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn 35 40 45

Phe Asn Leu Leu Phe Ser Gly Pro Ile Gln Ile 50 55

<210> 1489

<211> 314

<212> PRT

<213> Homo sapiens

<400> 1489

Gly Ser Gly Arg Gln Ala Gly Trp Pro Arg Gly Leu Leu Ser Gly Pro 1 5 10 15

Ala Pro Ser Glu Arg Ser Ala Val Ala Arg Leu Ala Pro Thr Glu Ser

Leu Ala Arg Met Glu Ala Val Val Asn Leu Tyr Gln Glu Val Met Lys 35 40 45

His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser Pro Leu 50 55 60

Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu Ser Leu 65 70 75 80

Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg Gly Phe 85 90 95

Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr Ile Val 100 105 110

Tyr Glu Phe Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp Arg Cys 115 120 125

Asp Pro Val Asp Tyr Ser Asn Ser Pro Glu Ala Leu Arg Met Val Arg 130 135 140

Val Ala Trp Leu Phe Leu Phe Ser Lys Phe Ile Glu Leu Met Asp Thr 145 150 155 160

Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val Thr Phe Leu His
165 170 175

Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp Gly Val Lys 180 185 190

Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met Ile Asn Ser Ser 195 200 205

Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser Ala Phe Gly Pro 210 215 220

Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met Thr Ala Ile Gln 225 230 235 240

Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser Gln Tyr Tyr Phe 245 250 255

Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile His Leu Ile Trp 260 265 270

Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn Phe Trp Tyr His 275 280 285

Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu Gln Gln Asn Gly 290 295 300

Ala Pro Gly Ile Ala Lys Val Lys Ala Asn 305

<210> 1490 <211> 258 <212> PRT <213> Homo sapiens

<400> 1490

Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser 1 5 10 15

Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu 20 25 30

Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg 35 40 45

Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr 50 55 60

Ile Val Tyr Glu Phe Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp 65 70 75 80

Arg Cys Asp Pro Gln Asp Cys Thr Leu Gly Gln Cys Pro Ser Val Pro 85 90 95

Ser Pro Pro Thr Pro Val Thr Lys Ala Tyr Val Val Arg Thr Glu Gln
100 . 105 . 110

Gly Thr Gly Pro Pro Leu Pro Thr Ala Ala Leu Gln Gly Pro Arg Leu 115 120 125

Trp Phe Leu Thr His Phe Pro Arg Ala Ala Pro Gly Met Trp Pro His 130 135 140

Cys Cys Leu Pro Leu Gln Ser Trp Gly Leu Lys Gly Leu Tyr Ser Tyr 145 150 155 160

Phe Pro Leu Pro Ala Leu Lys Leu Gly Arg Gly Ala Leu Arg Ala Gly 165 170 175

Pro Thr Lys Gly Leu Val Ala Phe Phe Leu Thr Gln Lys Arg Ser Ala 180 185 190

Ile Met Ser Leu Trp Thr Gln Ser His Ser Ser Thr Pro His Thr Glu 195 200 205

Ala Val Ala Ser Gly Pro Lys Val Arg Val Gly Gly Leu Gly Ile 210 215 220

Gln Pro Val Glu Ala Ala Tyr Ser Thr Cys Val Leu Ile Lys Ser Asp 225 230 235 240

Arg Gly Asn Gln Lys Lys Lys Lys Lys Lys Lys Leu Glu Asn Tyr Phe 245 250 255

Leu Lys

<210> 1491

<211> 222

<212> PRT

<400> 1491

Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser

1 5 10 15

Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu 20 25 30

Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg 35 40 45

Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr 50 55 60

Ile Val Tyr Glu Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val 65 70 75 80

Thr Phe Leu His Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp 85 90 95

Trp Gly Val Lys Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met 100 105 110

Ile Asn Ser Ser Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser 115 120 125

Ala Phe Gly Pro Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met 130 135 140

Thr Ala Ile Gln Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser 145 150 155 160

Gln Tyr Tyr Phe Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile 165 170 175

His Leu Ile Trp Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn  $18\dot{0}$  185 190

Phe Trp Tyr His Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu 195 200 205

Gln Gln Asn Gly Ala Pro Gly Ile Ala Lys Val Lys Ala Asn 210 215 220

<210> 1492

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1492

Met Tyr Gly Leu Ser Ile Cys Tyr Leu Lys Cys Leu Gly Pro Glu Val 1 5 10 15

Phe Trp Thr Phe Phe Leu Phe Trp Asn Thr Ser Ile Cys Ile Leu Pro 20 25 30

Val Glu His Pro Lys Ser Glu Ile Ser Lys Ile Gln Asn Val Pro Val

45

Ser Leu Asn Ser Ser Val Asp Gly His Leu Ser Tyr Phe Arg Phe Glu 50 55 60

Ala Ile Met Arg Glu Ala Ala Val His Val Phe Val Tyr Val Lys Cys 65 70 75 80

Val Phe Thr Cys Gln Ile Leu Lys Asp Leu Thr Asp Phe 85 90

<210> 1493

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1493

Lys Leu Ser Asn Cys Asn Cys Phe Gln Leu Leu Ser Glu Val Gly Ile 1 5 10 15

Met Val Asp Leu Ile Ser Ser Val Leu Phe Leu Gln Leu Tyr Tyr Gln 20 . 25 . 30

Val Leu Asn Phe Gly Met Ile Val Ser Ser Ala Leu Met Ile Trp Lys 35 40 45

Gly Leu Met Val Ile Thr Gly Ser Glu Ser Pro Ile Val Val Leu
50 55 60

Arg 65

<210> 1494

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1494

Met Tyr Gly Leu Ser Ile Cys Tyr Leu Lys Cys Leu Gly Pro Glu Val 1 5 15

Phe Trp Thr Phe Phe Leu Phe Trp Asn Thr Ser Ile Cys Ile Leu Pro 20 25 30

Val Glu His Pro Lys Ser Glu Ile Ser Lys Ile Gln Asn Val Pro Val 35 40 45

Ser Leu Asn Ser Ser Val Asp Gly His Leu Ser Tyr Phe Arg Phe Glu 50 60

Ala Ile Met Arg Glu Ala Ala Val His Val Phe Val Tyr Val Lys Cys
65 70 75 80

Val Phe Thr Cys Gln Ile Leu Lys Asp Leu Thr Asp Phe 85 90

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<210> 1495
<211> 81
<212> PRT
<213> Homo sapiens
<400> 1495
Met Gly Lys Pro Ser Leu Leu Phe Phe Gly Leu Met Ala Ser Trp Arg
Thr Arg Ser Gln Ala Arg Arg Thr Trp Ser Thr Ser Ser Arg Met Pro
Gly Arg Asn Val Leu Leu Arg Ser Arg Lys Arg Arg Ser Gln Ile Ser
Ser Ser Ile Ser Trp Ser Ile Ala Leu Gly Pro Val Met Pro Trp Pro
Gly Leu Ile Leu Phe Leu Lys Ile Ser Arg Ser Ser Thr Pro Thr Arg
                     70
Leu
<210> 1496
<211> 81
<212> PRT
<213> Homo sapiens
<400> 1496
Met Gly Lys Pro Ser Leu Leu Phe Phe Gly Leu Met Ala Ser Trp Arg
Thr Arg Ser Gln Ala Arg Arg Thr Trp Ser Thr Ser Ser Arg Met Pro
            20
Gly Arg Asn Val Leu Leu Arg Ser Arg Lys Arg Arg Ser Gln Ile Ser
Ser Ser Ile Ser Trp Ser Ile Ala Leu Gly Pro Val Met Pro Trp Pro
     50
Gly Leu Ile Leu Phe Leu Lys Ile Ser Arg Ser Ser Thr Pro Thr Arg
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<210> 1497

<211> 47

Leu

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1497
Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Cly Phe Ile
Ser His Gln Pro Thr Pro Val Ile Asn Ser Leu Ala Val Tyr Arg His
Arg Glu Thr Asp Phe Gly Val Arg Val Arg Asp His Pro Trp Xaa
                              40
<210> 1498
<211> 394
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
·<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1498
Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe
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10

- Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr
  20 25 30
- Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu 35 40 45
- Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val 50 55 60
- Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys 65 70 75 80
- Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys 85 90 95
- Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg 100 105 110
- His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg
- Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val 130 135 140
- Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr 145 150 155 160
- Tyr Met Glu Met Phe Gln Arg Ala Gln Ala Leu Arg Arg Arg Ala Glu 165 170 175
- Asp Tyr Tyr Arg Cys Lys Ile Thr Pro Ser Ala Arg Lys Pro Leu Cys 180 185 190
- Asn Xaa Val Arg Met Ala Ala Xaa Glu His Arg His Ser Ser Gly Leu 195 200 205
- Pro Xaa Trp Pro Tyr Leu Thr Ala Glu Thr Leu Lys Asn Arg Met Gly 210 215 220
- Xaa Gln Pro Pro Pro Pro Thr Gln Gln His Ser Ile Xaa Asp Asn Ser 225 230 230 240
- Leu Ser Leu Lys Thr Pro Pro Glu Cys Leu Leu His Pro Leu Pro Pro 245 250 255
- Ser Val Asp Asp Asn Ile Lys Glu Cys Pro Leu Ala Pro Leu Pro Pro 260 265 270
- Ser Val Asp Asp Asn Leu Lys Glu Cys Leu Leu Val Pro Leu Pro Pro 275 280 285
- Ser Pro Leu Pro Pro Ser Val Asp Asp Asn Leu Lys Asp Cys Leu Phe 290 295 300
- Val Pro Leu Pro Pro Ser Pro Leu Pro Pro Ser Val Asp Asp Asn Leu 305 310 315 320
- Lys Thr Pro Pro Leu Ala Thr Gln Glu Ala Glu Ala Glu Lys Pro Pro 325 330 335

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Lys Pro Lys Arg Trp Arg Val Asp Glu Val Glu Gln Ser Pro Lys Pro 340 345 350
```

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Lys Arg Arg Ala Asp Glu Val Glu Gln Ser Pro Lys Pro Lys Arg 355 360 365
```

Gln Arg Glu Ala Glu Ala Gln Gln Leu Pro Lys Pro Lys Arg Arg Arg 370 375 380

Leu Ser Lys Leu Xaa Thr Arg His Cys Thr 385 390

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<210> 1499
<211> 212
<212> PRT
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<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1499

Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile 1 10 15

Ser His Gln Pro Thr Pro Val Ile Asn Ser Leu Ala Val Tyr Arg His 20 25 30

Arg Glu Thr Asp Phe Gly Val Gly Val Arg Asp His Pro Gly Gln His  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Lys Thr Pro Ser Xaa Gln Lys Leu Asp Asn Leu Ile Ile Ile 50 55 60

Ile Gly Phe Leu Arg Arg Tyr Thr Phe Xaa Ile Leu Phe Cys Thr Ser 65 70 75 80

```
Xaa Leu Cys Val Ser Phe Leu Lys Thr Ile Phe Trp Ser Arg Asn Gly 85 90 95
```

- His Asp Gly Ser Xaa Asp Val Gln Gln Arg Ala Trp Arg Ser Asn Arg 100 105 110
- Ser Arg Gln Lys Gly Leu Arg Ser Ile Xaa Met His Thr Lys Lys Arg 115 120 125
- Val Ser Ser Phe Arg Gly Asn Lys Ile Gly Leu Lys Asp Val Ile Thr 130 135 140
- Leu Arg Arg His Val Glu Thr Lys Val Arg Ala Lys Ile Arg Lys Arg 145 150 155 160
- Lys Val Thr Thr Lys Ile Asn Arg His Asn Lys Ile Asn Gly Lys Arg 165 170 . 175
- Lys Thr Ala Arg Lys Gln Lys Met Phe Gln Arg Ala Gln Glu Leu Arg 180 185 190
- Arg Arg Ala Glu Asp Tyr His Lys Cys Lys Val Arg Ser Phe Leu Pro 195 200 205
- Ala Val Ala Gly 210
- <210> 1500
- <211> 121
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (110)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (112)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (114)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (116)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1500
- Met Ala Thr Leu Val Trp Arg Leu Tyr Leu Leu Gln Pro Glu Leu Val 1 5 10 15
- Leu Pro Ser Pro Pro Pro Pro Pro Arg Phe Pro Gly Pro Val Gln Thr

Pro Lys Ile Pro Gly Pro Ala Arg Gly Pro Arg Thr Gly Phe Gln Pro 35 40 45

Pro Ala Phe Ser Phe Pro Ser Pro Thr Pro Phe Phe Ser Ala Gly Thr 50 55 60

Pro Val Leu Ser Trp Lys Phe Ala Val Leu Cys Pro Ile Ala Gln Glu 65 70 75 80

Leu Leu Pro Ala Glu Lys Gly Ala Arg Asn Lys Cys Ser Gly Leu Ser 85 90 95

Arg Ser Tyr Ile Phe Ala Met Leu Pro Glu Met Gly Gly Xaa Asn Xaa 100 105 110

Leu Xaa Gln Xaa Asn Glu Trp His Gly 115 120

<210> 1501

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1501

Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val 1 5 10 15

Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr 20 25 30

Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val 35 40 45

Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala
50 60

Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp 65 70 75 80

Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu 85 90 95

Arg Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile 100 105 110

Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Val Cys Gly Phe 115 120 125

<210> 1502

<211> 120

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
Leu Glu Phe Lys Xaa Pro Xaa Xaa Gln Val Pro Pro Trp Xaa Trp Leu
Ser Leu Phe Lys Lys Tyr Arg Ser Ala Thr Ile Ala Asn Ala Arg Thr
Trp Val Phe Cys Ser Phe Phe Xaa Val Leu Ile Leu Leu Phe Leu Tyr
Asn Gly Val Ile Val Ile Asn Thr Asn Cys Ser Phe Trp Phe Ser Pro
His Cys His Phe Cys Pro Tyr Val Ser Leu Glu His Val Pro Gln Arg
Leu Trp Tyr Gln Ser Pro Val Pro Gly Leu Ile Ser Thr Ser His Ile
Thr Phe Val Met Phe Gln Ser Ser Tyr Glu Ala Cys Tyr Phe Phe Phe
            100
Ile Pro Gln Ala Tyr Phe His Arg
        115
<210> 1503
<211> 409
<212> PRT
<213> Homo sapiens
<400> 1503
Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val
```

5 Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr 2.0 Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu Arg Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile 105 Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser 120 Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala 155 Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser Val Pro Leu Pro Pro Leu Ile Met Asn Cys Arg Thr Ile Met Glu Glu Ile Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr Ile Pro Asn Ser Leu Lys Arg Ser Asp Ser Pro Ala Ala Asp Ser Asp

315

Ala Ser Ser Leu His Glu Gln Pro Gln Gln Ile Ala Ile Lys Val Ser

Val His Pro Gln Ser Lys Lys Glu His Ala Asp Asp Gln Glu Gly Gly

Gln Phe Glu Val Lys Asp Val Glu Glu Thr Glu Leu Ser Ala Glu His

Ser Pro Glu Thr Ala Glu Pro Ser Thr Asp Val Thr Ser Thr Glu Leu 355 360 365

Thr Ser Glu Glu Pro Thr Pro Val Glu Val Pro Asp Lys Val Leu Pro 370 375 380

Pro Ala Tyr Leu Glu Ala Thr Glu Pro Ala Val Thr His Asp Lys Asn 385 390 395 400

Thr Cys Ile Ile Tyr Glu Ser His Val 405

<210> 1504

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1504

Ser Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro 1 5 10 15

Thr Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro 20 25 30

Glu Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala 35 40 45

Pro Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Xaa Xaa 50 60

Tyr Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln 65 70 75 80

His Xaa His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val 85 90 95

Ser Arg Tyr Pro Pro Arg Thr Pro Lys Gln His

```
<210> 1505
<211> 106
<212> PRT
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<213> Homo sapiens

<400> 1505

Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro Thr 1 5 10 15

Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro Glu 20 25 30

Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala Pro 35 40 45

Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Arg Thr Tyr 50 55 60

Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln His 65 70 75 80

Pro His Thr Thr Pro Trp Gln Pro Leu Phe Ile Ile Ser Val Ser 85 90 95

Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
100 105

<210> 1506

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1506

Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro Thr  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro Glu 20 25 . 30

Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala Pro 35 40 45

Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Arg Thr Tyr 50 55 60

Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln His 65 70 75 80

Pro His Thr Thr Pro Trp Gln Pro Leu Phe Ile Ile Ser Val Ser 85 90 95

Arg Tyr Pro Pro Arg Thr Pro Lys Gln His

```
<210> 1507
<211> 109
<212> PRT
<213> Homo sapiens
<400> 1507
Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu
Leu Ala Val Leu Ile Phe Cys Leu Val Leu Ala Val Tyr Ile Val Phe
             20
Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val
Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu
                         55
     50
Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly
His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu
                                     90
                                                          95
Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr
            100
                                105
<210> 1508
<211> 71
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1508
Gly Val Arg Ile Asp Ala Ser Gly Ser Leu Ala Ala Val Leu Pro Leu
Asn His Tyr Thr Ile Thr Glu Phe Asn Phe Leu Gln Phe Gln Gly Xaa
Thr Glu Leu Ser Ser Asp Ser Lys Ile Arg Ile Ser Asn Arg Glu Trp
Ile His Leu Arg Ile Gly Glu Thr Asp Ile His Asp Leu Lys Gln Lys
Ser Glu Thr Lys Leu Ile Asn
```

<210> 1509 <211> 109 <212> PRT <213> Homo sapiens

<400> 1509

Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu 1 5 10 15

Leu Ala Val Leu Ile Phe Cys Leu Val Leu Ala Val Tyr Ile Val Phe 20 25 30

Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val 35 40 45

Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu 50 55 60

Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly 65 70 75 80

His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu 85 90 95

Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr 100 105

<210> 1510

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1510

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu 1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser 35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln 50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala 65 70 75 80

Val Lys

<210> 1511

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1511

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys \$20\$

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser 35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln 50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala 65 70 75 80

Val Lys

<210> 1512

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1512

Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr 1 5 10 15

Thr Phe Gly Val Leu Leu Asn Leu Gly Leu His Ala Gly Gly Ser 20 25 30

Gly Pro Gly Leu Leu Glu Gly Phe Ser Gly Trp Ala Ala Leu Val Val 40 45

Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys His 50 55 60

Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val Val 65 70 75 80

Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala Ala 85 90 95

Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr 100 105 110

Gly Ser Arg 115

<210> 1513

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1513

Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr
1 5 10 15

Thr Phe Gly Val Leu Leu Asn Leu Gly Leu His Ala Gly Gly Gly Ser 20 25 30

Gly Pro Gly Leu Leu Glu Gly Phe Ser Gly Trp Ala Ala Leu Val Val
35 40 45

Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys His 50 55 60

Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val Val 65 70 75 80

Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala Ala 85 90 95

Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr 100 105 110

Gly Ser Arg 115

<210> 1514

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1514

Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser 1 5 10 15

Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala 20 25 30

Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu 35 40 45

Ile Ser Phe Leu Phe Ser Ala Trp

<210> 1515

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1515

Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser 1 5 10 15

Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala 20 25 30

Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu

Ile Ser Phe Leu Phe Ser Ala Trp
50 55

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<210> 1516
```

<212> PRT

<213> Homo sapiens

<400> 1516

Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val Leu Phe Leu Leu Gly
1 5 10 15

Thr Leu Val Ile Ala Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp
20 25 30

Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met 35 40 45

Trp Ala Tyr Arg Cys Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp 50 55 60

Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val 65 70 75 80

Gly Ile Ala Ile Tyr Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr 85 90 95

Thr His Ser Ile Trp His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu 100 105 110

Leu Pro Pro Pro Asp Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys 115 120 125

Phe Pro Cys His Tyr Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr 130 135 140

Ala Val Thr 145

<210> 1517

<211> 147

<212> PRT

<213> Homo sapiens

<400> 1517

Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val Leu Phe Leu Leu Gly
1 10 15

Thr Leu Val Ile Ala Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp 20 25 30

Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met 35 40 45 .

Trp Ala Tyr Arg Cys Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp 50 55 60

Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val

<sup>&</sup>lt;211> 147

Gly Ile Ala Ile Tyr Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr 90 . 95

Thr His Ser Ile Trp His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu 100 105 110

Leu Pro Pro Pro Asp Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys
115 120 125

Phe Pro Cys His Tyr Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr 130 135 140

Ala Val Thr 145

<210> 1518

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1518

Met Trp Gln Tyr His Arg Leu Ser Cys Thr Ala Trp Gln Pro Val Ile 1 5 10 15

Leu Ser Phe Ser Leu Ser Val Gly His Arg Ile Leu Leu Ala Leu Phe 20 25 30

Phe Phe Ile Leu His Leu Ser Ile Leu Ile Ala Thr Glu Cys Arg Pro 35 40 45

Trp Tyr Ser Phe His Leu Val Ser Leu Pro Ser Phe Leu Pro Gln Phe 50 55 60

Leu Leu Cys Leu Ala Xaa Ile Cys Leu Phe Gly Phe Thr Thr Leu Leu 65 70 75 80

Phe Ser Phe Cys Cys Gln Val His Val Leu Gly His

<210> 1519

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids.

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<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1519
Asp Tyr Ile Leu Met Arg Gln Leu Arg Pro Ala Asn Phe Cys Ile Phe
Ser Arg Asp Arg Phe His Pro Val Ser Gln Ala Gly Leu Glu Leu Leu
             20
                                 25
Thr Ser Ser Asp Leu Xaa Ala Phe Gly Leu Pro Lys Tyr Trp Tyr Tyr
         35
                              40
Arg His Glu Pro Pro Cys Leu Ala Ser Xaa
                         55
<210> 1520
<211> 80
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25).
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1520

Met Ala Ser Trp Pro Phe Leu Ser Pro Met Gly Pro Ile Ala Leu Ala

Leu Leu Thr Gln Ala Leu Ser Ser Xaa Val Gly Leu Cys Leu Ala Leu 25 20

Thr Cys Ser Arg Arg Pro Ser Pro Asp Ser Val Cys Ala Ser Cys Arg 40

Phe Pro Leu Val Pro Leu Cys Cys Gln Pro Ser Leu Pro Ala Leu Leu 50

Arg Pro Val Ser His Cys Arg Tyr Pro Gly Thr Ser Trp Val Ser Xaa 75 70

<210> 1521

<211> 56

<212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids
 Val Asp Leu Val Ser Val Asn Val Gly Ser Glu Phe Leu Val Thr Leu
Leu Phe Phe Leu Gly Pro Val Thr Gly His Leu Asp Arg Leu Asn Ala
              20
                                  25
 Ile Leu Glu Leu Asp Ser Tyr Val Phe Ile Cys Thr Pro Xaa Ser His
                              40
 Leu Pro Val Ala Ser Ser Asp Ala
     50
                          55
 <210> 1522
 <211> 151
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (128)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1522
Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala
Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly
Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro
Tyr Arg Val Met Gly Xaa Leu His Ser Ser Thr Lys Gly Phe Ser Phe
Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro
Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Xaa Pro Thr Xaa Ser
Cys Pro Gly Tyr Cys His His Val Ser Leu Tyr Pro Val Tyr Ala Leu
                                105
Gln Leu Val Leu Xaa Gln Ile Leu Leu Xaa Trp Pro Asn Leu Met Xaa
Tyr Trp Tyr Xaa His Leu Met Thr Gly Pro Xaa Ser Asp Gln Lys Arg
Lys Ser Val Val Thr Leu Val
<210> 1523
<211> 79
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
Arg Val Asp Asn Phe Leu Cys Gln Phe Ile Arg Ile Tyr Leu Ile Leu
Leu Ser Ser His Ile Ile Phe His Asn Thr Asn Val Ser Cys Tyr Pro
              20
Met Glu Ser His Leu Leu Phe Ser Tyr Asn Asn Thr Ala Val Ser Ile
                              40
```

Leu Val His Arg Phe Phe Asn Ile Xaa Ile Ser Lys Phe Leu Lys Val

Ile Ser Trp Asp Arg Asn Arg Asn Gly Ile Gly Ile Ser Lys Ser 65 70 75

<210> 1524

50

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1524

Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala 1 5 10 15

Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly 20 25 30

Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro 35 40 45

Tyr Arg Val Met Gly Gln Leu His Ser Ser Thr Lys Gly Phe Ser Phe 50 55 60

Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro 65 70 75 80

Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Val Pro Thr Val Ser 85 90 95

Cys Pro Gly Tyr Cys Pro Ser Cys Phe Ser Val Ser Cys Leu Cys Phe 100 105 110

Thr Thr Gly Pro Ser Ser Asn Ser Ala 115 120

<210> 1525

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1525

Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe 1 5 10 15

Cys Phe Xaa Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe 20 25 30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln 35 40 45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg

```
Ala Ser Leu Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu 65 70 75 80
```

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile 85 90

<210> 1526

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1526

Ser Thr Leu Xaa Val Thr Phe Ile Cys Ser Ser Arg Xaa Leu Leu Arg 1 5 10 15

Glu Arg Gly Ala Val Leu Lys Thr Asn Pro Ile Pro Ile Leu Leu Lys 20 25 30

Lys Pro Leu Cys Pro Ser Phe Ile His Asn Leu Val Pro His Pro 35 40 45

His Leu Pro Gln Leu Leu Phe Ser Asn Phe Leu Cys Arg Cys Pro 50 55 60

Tyr His

<210> 1527

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1527

Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe

1 5 10 15

Cys Phe Val Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe 20 25 30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln 35 40 45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg 50 55 60

Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu 65 70 75 80

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile 85 90

<210> 1528

<211> 336

<212> PRT

<213> Homo sapiens

<400> 1528

Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu 1 5 10 15

Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro 20 25 30

Leu Pro Val Val Arg Ile Pro Val Ala Leu Gl<br/>n Arg Gl<br/>n Leu Glu Gl<br/>n  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro 50 55 60

Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala 65 70 75 80

Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly 85 90 95

Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala 100 105 110

Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe 115 120 125

Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala 130 135 140

Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro 145 150 . 155 160

Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser 165 170 175

Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly 180 185 190

Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val 195 200 205

Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Gln 210 215 220

Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly 225 230 235 240

- His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala 245 250 255
- Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser 260 265 270
- Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala 275 280 285
- Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu 290 295 300
- Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe 305 310 315 320
- Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val 325 330 335
- <210> 1529
- <211> 336
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (224)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1529
- Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu 1 5 10 15
- Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro 20 25 30
- Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln 35 40 45
- Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro 50 55 60
- Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala 65 70 75 80
- Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly 85 90 95
- Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala
  100 105 110
- Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe 115 120 125
- Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala 130 135 140

Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly
180 185 190

Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val 195 200 205

Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Xaa 210 215 220

Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly 225 230 235 240

His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala 245 250 255

Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser 260 265 270

Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala 275 280 285

Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu 290 295 300

Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe 305 310 315 320

Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val 325 330 335

<210> 1530 <211> 93

<212> PRT

<213> Homo sapiens

<400> 1530

Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val 1 5 10 15

Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg 20 25 30

Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr 35 40 45

His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe 50 55 60

Leu Phe Asp Ala Gln Glu Asp Pro Ser Ala Leu Asp Ile Ala Ser Pro 65 70 75 80

Gly Gly Met Ala Ala Glu Asp Glu Ile Gln Arg Gln Arg 85 90

<210> 1531

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1531

Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg 1 5 10 15

Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala 20 25 30

Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu 35 40 45

Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr 50 55 60

Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ser Thr Ile Met Asp 65 70 75 80

Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln 85 90 95

Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro 100 105 110

Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr 115 120 125

Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp 130 135 140

Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr 145 150 155 160

Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe

Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala 180 185 190

Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg 195 200 205

Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg 210 215

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<210> 1532
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<211> 178

<212> PRT

<213> Homo sapiens

<400> 1532

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile 1 5 10 15

Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser 20 25 30

Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp 35 40 45

Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro 50 55 60

Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly 65 70 75 80

Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
85 90 95

Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser 100 105 110

Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly 115 120 125

Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys 130 135 140

Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile 145 150 155 160

Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His 165 170 175

Cys Arg

<210> 1533

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1533

Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp
1 5 10 15

Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp
20 25 30

Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg

Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr 50 55 60

Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser 65 70 75 80

Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu 85 90 95

Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu
100 105 110

Arg Gly Gly Phe Leu Gly Ser Ser Gln Asp Arg Ser Ala Tyr Gln Thr 115 120 125

Ile Asp Ser Ala Glu Ala Pro Ala Asp Pro Phe Ala Val Pro Glu Gly 130 135 140

Arg Ser Gln Asp Ala Arg Gly Tyr 145 150

<210> 1534

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1534

Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp

1 5 10 15

Leu Leu Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp
20 25 30

Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg
35 40 45

Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr 50 55 60

Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu 85 90 95

Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu 100 105 110

Arg Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser Ser Gln
115 120 125

Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro Ala Asp 130 135 140

Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly Tyr 145 150 155

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<210> 1535
<211> 91
<212> PRT
<213> Homo sapiens
<400> 1535
Met Pro Leu Ala Pro
1
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Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp 1 5 10 15

Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp 20 25 30

Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu 35 40 45

Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys 50 60

Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe 65 70 75 80

Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe 85 90

<210> 1536 <211> 64 <212> PRT <213> Homo sapiens

<400> 1536
Ser Ala Thr His Gln Gln Ala Leu Val Cys Asp Val Leu Leu Pro Val
1 5 10 15

Ser Met Cys Ser His Glu Asn Leu Tyr Ile Leu Cys Ser Gly Val Ser 20 25 30

Tyr Phe Ile Phe Phe Phe Ser Cys Val Thr Ser Val Thr Ser Gly Leu 35 40 45

Gly Ile Pro Ser Tyr Pro Glu Val Arg Lys Tyr Ser Ser Ile Phe Phe 50 55 60

<210> 1537 <211> 91 <212> PRT

<213> Homo sapiens

<400> 1537

Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp 1 5 10 15

- Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp 20 25 30
- Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu 35 40 45
- Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys 50 55 60
- Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe 65 70 75 80
- Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe 85 90
- <210> 1538
- <211> 112
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (93)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (98)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (104)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (106)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1538
- Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn 1 5 10 15
- Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe 20 25 30
- Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu 35 40 45
- Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile 50 55 60
- Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser 65 70 75 80
- Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Xaa Lys Cys Glu

85

Val Xaa Pro His Cys Ser Leu Xaa Cys Xaa Phe Leu Ile Thr Met Met 100 105 110

90

<210> 1539

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1539

Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe 20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu 35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile 50 55 60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser 65 70 75 80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu 85 90 95

Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp 100 105 110

Val

<210> 1540

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1540

Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn 1 5 10 15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe 20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu
35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile 50 55 60

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Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser 65 70 75 80
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Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu 85 90 95

Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp 100 105 110

Val

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<210> 1541
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<400> 1541

Met Arg Met Ser Leu Ala Asp Ser Leu Ala Cys Ser Val Cys Val Ala 1 5 10 15

Leu Thr Ala Ala Ala Arg Leu Leu Arg Ser Arg Pro Ser Ser Cys Ser 20 25 30

Ser Phe Ser Trp Ile Ser Gly Thr Ser Ser Ser Pro Ser Phe Leu Gly 35 40 45

Ser Phe Thr Ser Leu Leu Gly Ser Ser Leu Ser Ser Leu Gly Asp Ser 50 55 60

Leu Leu Gly Arg Gly Thr Leu Gly Asn Phe Trp Glu Val Leu Ile Ser 65 70 75 80

Thr Ser Thr Ser Ser Trp Ala Asp Phe Ser Ser Leu Val Ser Thr Ser 85 90 95

Pro Lys Val Arg Val Pro Leu Arg Pro Ile Phe Thr Cys Phe Leu 100 105 110

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<210> 1542
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<sup>&</sup>lt;211> 111

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;211> 148

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;220>

<sup>&</sup>lt;221> SITE

<sup>&</sup>lt;222> (3)

<sup>&</sup>lt;223> Xaa equals any of the naturally occurring L-amino acids

<sup>&</sup>lt;220>

<sup>&</sup>lt;221> SITE

<sup>&</sup>lt;222> (37)

<sup>&</sup>lt;223> Xaa equals any of the naturally occurring L-amino acids

<sup>&</sup>lt;220>

<sup>&</sup>lt;221> SITE

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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids
Gly Phe Xaa Ala Ala Ala Ala Ala Ala Val Val Ala Ala Ala Ala
Ala Ala Ser Val Glu Gly Arg Gln Pro Pro Gly Leu Gly Ala Val Gly
Pro Ala Gly Arg Xaa Ala Gly Ser Xaa Gly Xaa Arg Met Pro Ala Gly
Arg Val Ala Gly Ala Val Thr Gly Leu Gly Val Ser Trp Leu Arg Gly
                         55
Lys Asn Ser Gly Val Pro Gly Ala Ala Leu Pro Pro Ala Ala Pro Ser
                                       . 75
Val Ala Ser Leu Val Ala His Ser Gly Pro Ala Val Gly Pro Pro Leu
                                     90
Ser Pro Xaa Ser Val Pro Gln Gly Gly Tyr Ser Lys Ser Gly Leu Pro
            100
                                105
Leu Gln Asp Ala Gly Ser Pro Trp Xaa His Cys Arg Gly Thr Asp Cys
                            120
Gly Ser Ser Met Leu Asn Gly Val Glu Ala Gly Leu Ala Ala Ala Ala
    130
                                             140
Ser Cys Cys His
145
<210> 1543
<211> 191
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (2)

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<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1543
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
                             40
Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
                                         75
                     70
Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr
                                     90
Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
                                105
Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
                            120
Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
                        135
Phe Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Thr
145
Met Ala Pro Thr Trp Gln Leu His Ser Gly Leu Gly Gly Pro Gly Leu
                                    170
Pro Gly Ser Xaa Xaa Tyr Ser Pro Gln Val Glu Gly Ala Xaa Gly
                                185
<210> 1544
<211> 165
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1544
Asn Xaa Phe Ala Xaa Trp Xaa Gln Lys Asp Thr Leu Arg Ile Gln Trp
Lys Lys His Ser Tyr Pro Phe Val Thr Phe Gln Xaa Tyr Ser Leu Ile
                                 25
Xaa His Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys
                             40
Asn Thr Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro
                         55
Ile Asp Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu
                     70
 65
Arg Leu Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu
                                      90
Asn Ile Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His
                                 105
            100
Gly Tyr Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn
                            120
Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp
    130
Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe
                                         155
Leu Asn Tyr Ile Cys
                165
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<210> 1545

<211> 303

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (294)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids,
<400> 1545
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
         35
Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
                     70
Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr
                                      90
Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
        115
                             120
                                                 125
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Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
                        135
Ser Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn
                                        155
                    150
Asn Gly Thr Tyr Leu Val Ser Phe Thr Leu Phe Trp Glu Gly Gln Xaa
                                    170
Xaa Leu Xaa Leu Leu Ile His Pro Ser Glu Gly Ala Ser Ala Xaa
                                185
Trp Arg Ala Arg Asn Gln Gly Tyr Asp Lys Ile Ile Phe Lys Gly Lys
Phe Val Asn Gly Thr Ser His Val Phe Thr Glu Cys Gly Leu Thr Leu
                        215
Asn Ser Asn Ala Glu Leu Cys Glu Tyr Leu Asp Asp Arg Asp Gln Glu
                    230
Ala Phe Tyr Cys Met Lys Pro Gln His Met Pro Cys Glu Ala Leu Thr
                245
Tyr Met Thr Thr Arg Asn Arg Glu Val Ser Tyr Leu Thr Asp Lys Glu
                                265
Asn Ser Leu Phe His Arg Ser Lys Val Gly Val Glu Met Met Lys Asp
                            280
Arg Lys His Ile Asp Xaa Thr Asn Xaa Asn Lys Arg Glu Xaa Ile
    290
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<210> 1546 <211> 1 <212> PRT <213> Homo sapiens <400> 1546 Met 1

<210> 1547 <211> 547 <212> PRT <213> Homo sapiens

Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr 20 25 30

Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn

Asn	Ser 50	Ala	Lys	Ser	Leu	Phe 55	Pro	Lys	Thr	Ser	Leu 60	Ile	Pro	Leu	Lys
Pro 65	Leu	Thr	Glu	Thr	Glu 70	Leu	Arg	ile	Lys	Glu 75	Ile	Ile	Glu	Lys	Let 80
Asp	Gln	Gln	Ile	Pro 85	Pro	Arg	Pro	Phe	Thr 90	His	Val	Asn	Thr	Thr 95	Thr
Ser	Ala	Thr	His 100	Ser	Thr	Ala	Thr	Ile 105	Leu	Asn	Pro	Arg	Asp 110	Thr	Туз
Cys	Arg	Gly 115	Asp	Gln	Leu	Asp	Ile 120	Leu	Leu	Glu	Val	Arg 125	Asp	His	Let
Gly	Gln 130	Arg	Lys	Gln	Tyr	Gly 135	Gly	Asp	Phe	Leu	Arg 140	Ala	Arg	Met	Ser
Ser 145	Pro	Ala	Leu	Thr	Ala 150	Gly	Ala	Ser	Gly	Lys 155	Val	Met	Asp	Phe	Asr 160
Asn	Gly	Thr	Tyr	Leu 165	Val	Ser	Phe	Thr	Leu 170	Phe	Trp	Glu	Gly	Gln 175	Va]
Ser	Leu	Ser	Leu 180	Leu	Leu	Ile	His	Pro 185	Ser	Glu	Gly	Ala	Ser 190	Ala	Leu
Trp.	Arg	Ala 195	Arg	Asn	Gln	Gly	Tyr 200	Asp	Lys	Ile	Ile	Phe 205	Lys	Gly	Lys
Phe	Val 210	Asn	Gly	Thr	Ser	His 215	Val	Phe	Thr	Glu	Cys 220	Gly	Leu	Thr	Let
Asn 225	Ser	Asn	Ala	Glu	Leu 230	Cys	Glu	Tyr	Leu	Asp 235	Asp	Arg	Asp	Gln	Glu 240
Ala	Phe	Tyr	Cys	Met 245	·Lys	Pro	Gln	His	Met 250	Pro	Cys	Glu	Ala	Leu 255	Thi
Tyr	Met	Thr	Thr 260	Arg	Asn	Arg	Glu	Val 265	Ser	Tyr ·	Leu	Thr	Asp 270	Lys	G1
Asn	Ser	Leu 275	Phe	His	Arg	Ser	Lys 280	Val	Gly	Val	Glu	Met 285	Met	Lys	Ası
Arg	Lys 290	His	Ile	Asp	Val	Thr 295	Asn	Cys	Asn	Lys	Arg 300	Glu	Lys	Ile	Gl:
Glu 305	Thr	Cys	Gln	Val	Gly 310	Met	Lys	Pro	Pro	Val 315		Gly	Gly	Tyr	Th:
Leu	Gln	Gly	Lys	Trp 325	Ile	Thr	Thr	Phe	Cys 330	Asn	Gln	Val	Gln	Leu 335	Ası
Thr	Ile	Lys	Ile 340	Asn	Gly	Cys	Leu	Lys 345	Gly	Lys	Leu	Ile	Tyr 350	Leu	Le
Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp	Ile	Tyr	Tyr	Phe	Pro	Lys	Val	Va.

355 360 365

Lys Thr Leu Lys Phe Phe Asp Leu His Glu Thr Gly Ile Phe Lys Lys 370 375 380

His Leu Leu Leu Asp Ala Glu Arg His Thr Gln Ile Gln Trp Lys Lys 385 390 395 400

His Ser Tyr Pro Phe Val Thr Phe Gln Leu Tyr Ser Leu Ile Asp His 405 410 415

Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys Asn Thr 420 425 430

Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro Ile Asp
435
440
445

Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu Arg Leu 450 460

Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu Asn Ile 465 470 475 480

Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His Gly Tyr
485
490
495

Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn Val Gly 500 510

Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp Thr Ile 515 520 525

His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe Leu Asn 530 535 540

Tyr Ile Cys 545

<210> 1548

<211> 246

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids.

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<220>
<221> SITE
<222> (243)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1548
Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu
Gln Leu Gln Phe Ala Ala Leu Leu Leu Gly Thr Leu Ser Xaa Gln Val
His Thr Leu Arg Pro Glu Asn Leu Leu Leu Val Ser Thr Leu Asp Gly
Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu
Arg Asp Asp Pro Val Ile Glu Gly Pro Met Tyr Val Thr Glu Met Ala
Phe Leu Ser Asp Pro Ala Asp Gly Ser Leu Tyr Ile Leu Gly Thr Gln
Lys Gln Gln Gly Leu Met Lys Leu Pro Phe Thr Ile Pro Glu Leu Val
                                105
His Ala Ser Pro Cys Arg Ser Ser Asp Gly Val Phe Tyr Thr Gly Arg
                            120
Lys Gln Asp Ala Trp Phe Val Val Asp Pro Glu Ser Gly Glu Thr Gln
                        135
Met Thr Leu Thr Thr Glu Gly Pro Ser Thr Pro Arg Leu Tyr Ile Gly
                                        155
145
Arg Thr Gln Tyr Thr Val Thr Met His Asp Pro Arg Ala Pro Ala Leu
                                    170
Arg Trp Asn Thr Thr Tyr Arg Arg Tyr Ser Thr Pro Pro Met Asp Gly
            180
Ser Thr Gly Lys Tyr Met Ser Gln Leu Gly Val Leu Arg Glu Gly Pro
```

Ala Ala His Xaa Gly Thr Pro Gly Ser Gly Thr Xaa Leu Leu Asp Thr 210 215 220

Arg Asn Leu Gly Arg Ala Leu Gly Asn Gly Pro Ala Thr Pro Leu Gly 225 230 235 240

Thr Lys Xaa Arg Ala Trp 245

<sup>&</sup>lt;210> 1549

<sup>&</sup>lt;211> 473

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

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<220>
 <221> SITE
 <222> (321)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (386)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (391)
 <223> Xaa equals any of the naturally occurring L-amino acids
<400> 1549
 Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu
 Gln Leu Gln Phe Ala Ala Leu Leu Gly Thr Leu Ser Pro Gln Val
              20
 His Thr Leu Arg Pro Glu Asn Leu Leu Val Ser Thr Leu Asp Gly
 Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu
      50
                                              60
 Arg Asp Asp Pro Val Ile Glu Gly Pro Met Tyr Val Thr Glu Met Ala
 Phe Leu Ser Asp Pro Ala Asp Gly Ser Leu Tyr Ile Leu Gly Thr Gln
                                      90
 Lys Gln Gln Gly Leu Met Lys Leu Pro Phe Thr Ile Pro Glu Leu Val
 His Ala Ser Pro Cys Arg Ser Ser Asp Gly Val Phe Tyr Thr Gly Arg
                             120
 Lys Gln Asp Ala Trp Phe Val Val Asp Pro Glu Ser Gly Glu Thr Gln
 Met Thr Leu Thr Thr Glu Gly Pro Ser Thr Pro Arg Leu Tyr Ile Gly
 Arg Thr Gln Tyr Thr Val Thr Met His Asp Pro Arg Ala Pro Ala Leu
 Arg Trp Asn Thr Thr Tyr Arg Arg Tyr Ser Ala Pro Pro Met Asp Gly
             180
 Ser Pro Gly Lys Tyr Met Ser His Leu Ala Ser Cys Gly Met Gly Leu
 Leu Leu Thr Val Asp Pro Gly Ser Gly Thr Val Leu Trp Thr Gln Asp
                         215
 Leu Gly Val Pro Val Met Gly Val Tyr Thr Trp His Gln Asp Gly Leu
```

240

225

Arg Gln Leu Pro His Leu Thr Leu Ala Arg Asp Thr Leu His Phe Leu 245 250 255

235.

Ala Leu Arg Trp Gly His Ile Arg Leu Pro Ala Ser Gly Pro Arg Asp 260 265 270

Thr Ala Thr Leu Phe Ser Thr Leu Asp Thr Gln Leu Leu Met Thr Leu 275 280 285

Tyr Val Gly Lys Asp Glu Thr Gly Phe Tyr Val Ser Lys Ala Leu Val 290 295 300

His Thr Gly Val Ala Leu Val Pro Arg Gly Leu Thr Leu Ala Pro Ala 305 310 315 320

Xaa Gly Pro Thr Thr Asp Glu Val Thr Leu Gln Val Ser Gly Glu Arg 325 330 335

Glu Gly Ser Pro Ser Thr Ala Val Arg Tyr Pro Ser Gly Ser Val Ala 340 345 350

Leu Pro Ser Gln Trp Leu Leu Ile Gly His His Glu Leu Pro Pro Val 355 360 365

Leu His Thr Thr Met Leu Arg Val His Pro Thr Leu Gly Ser Gly Thr 370 375 380

Ala Xaa Thr Arg Pro Pro Xaa Asn Thr Gln Ala Pro Ala Phe Phe Leu 385 390 395 400

Glu Leu Leu Ser Leu Ser Arg Glu Lys Leu Trp Asp Ser Glu Leu His  $405 \hspace{1.5cm} 410 \hspace{1.5cm} 415$ 

Pro Glu Glu Lys Thr Pro Asp Ser Tyr Leu Gly Leu Gly Pro Gln Asp 420 425 430

Leu Leu Ala Ala Ser Leu Thr Ala Val Leu Leu Gly Gly Trp Ile Leu 435. 440 445

Phe Val Met Arg Gln Gln Gln Pro Gln Val Val Glu Lys Gln Gln Glu 450 455 460

Thr Pro Leu Ala Pro Ala Ala Trp Gly 465 470

<210> 1550

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1550

Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu 1 10 15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu 20 25 30

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp.Glu Pro Pro 35 40 45

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly His His 50 55 60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu 65 70 75 80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala 85 90 95

Leu Ala

<210> 1551

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1551

Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu 1 5 10 15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu 20 25 30

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro 35 40 45

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly His His 50 55 60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu 65 70 75 80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala 85 90 95

Leu Ala

<210> 1552

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1552

Met Gly Val Leu Trp Tyr Thr Phe Trp Tyr Thr Phe Thr Leu Leu Glu 1 5 10 15

Cys Ser Arg Ser Ser Asn Asp Ser Arg Thr Leu Val Leu Ile Cys Leu 20 25 30

Ser Leu Leu Gly Phe Asp Phe Val Arg Val Leu Asn Ile Lys Leu Ala

45

```
Val Gly Glu Ser Thr Leu His Met Leu Ser Leu Pro Phe Ser Leu Arg
```

Leu Ser Pro Ala Leu Pro Phe Ser Pro Phe Leu Leu Met Asn Lys 65 70 75 80

Pro Leu Ser Asp Val Gln Tyr Phe Asn Leu His Phe Ala Gly 85 90

- <210> 1553
- <211> 49
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE ·
- <222> (1)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (2)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1553
- Ala Thr Asp Lys Tyr Ser Glu Gln Val Ser Gln Val Gly Pro Gly Ala 20 25 30
- Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly 35 40 45

Ser

- <210> 1554
- <211> 141
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (140)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1554
- Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu 1 5 10 15
- Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg 20 25 30 .

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr 35 40 45

Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr 50 55 60

Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro 65 70 75 80

His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro  $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$ 

Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr 100 105 110

Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val 115 120 125

Glu Trp Glu His Leu Ser Pro Phe Asn Thr Ala Xaa Ala 130 135 140

<210> 1555

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1555

Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu

1 10 15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg 20 25 30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr 35 40 45

Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr 50 55 60

Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro 65 70 75 80

His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro \$85\$ 90 95

Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr 100 105 110

Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val 115 120 125

Glu Trp Glu His Leu Ser Pro Ser Asn Thr Ala Gly Ala 130 135 140

<210> 1556 <211> 93

<212> PRT <213> Homo sapiens

<400> 1556
Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys
1 5 10 15

Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu 20 25 30

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys
35 40 45

Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val 50 55 60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly 65 70 75 80

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu 85 90

<210> 1557

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1557

Glu Glu His Gly Ile Thr Ser Val Ile Phe Leu Pro Gln Val His Asn
1 5 10 15

Leu Asn Leu Ile Ile Arg Lys His Gln Thr Asn Pro Asn Gln Glu Thr 20 25 30

Leu Tyr Lys Ile Met Thr Cys Asp Pro Gln Asn Leu Gln Gly His Glu 35 40 45

Gln Gln Gly Lys Thr Glu Asp Lys Cys Thr Val 50 55

<210> 1558

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1558

Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys
1 5 10 15

Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu 20 25 30

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys
35 40 45

Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val

```
Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly 65 70 75 80
```

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu 85 90

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<210> 1559
```

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1559

Met Leu Leu Gln Arg Thr Arg Phe Leu Leu Phe Phe Ser Phe Val 1 5 10 15

Ser Ser Phe Phe Leu Ser Leu Pro Ser Phe Ser Leu Phe Phe Leu Phe 20 25 30

Leu Ser Leu Phe Cys Ile His Val Ala Ala Lys Asp Met Ile 35 40 45

Ser Ser Phe Phe Ser Leu Pro Phe Ser Phe Leu Ser Phe Xaa Leu Ser 50 60

Phe Leu Leu Pro Ser Phe Ser Phe Phe Tyr Phe Phe Phe Phe Trp Leu 65 70 75 80

Ser Phe Phe Yaa Ser Lys Xaa Leu Ala Leu Val Pro Lys Xaa Gly
85 90 95

Met Gln Xaa Val.

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<210> 1560
<211> 87
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1560
Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
                             40
                                                 45
Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Tyr Ser
Trp Cys Thr Pro Arg Leu Xaa Ser Trp Leu Arg Asp Thr Pro Ser Pro
                     70
Leu Ala Ser Gly Thr Xaa Pro
<210> 1561
<211> 49
<212> PRT
<213> Homo sapiens
<400> 1561
Val Arg Ala Met Phe Gly Phe Leu Ala Cys Val Ser Ser Leu Arg Val
                                     10
Met Ala Ser Ser Ser His Val Thr Ser Glu Asp Met Ile Leu Phe
Leu Ile Ser Cys Gly Ile Tyr Val Pro His Phe Leu Tyr Pro Val Asp
```

Arg

```
<210> 1562
<211> 168
<212> PRT
<213> Homo sapiens
<400> 1562
Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
                                     1.0
Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Tyr Ser
Trp Cys Thr Pro Arg Leu Leu Ser Trp Leu Arg Asp Thr Pro Ser Pro
Leu Ala Ser Gly Thr Phe Pro Pro His Ser Pro Leu Gly Glu Arg Pro
Leu Leu Ser Gly Pro Pro Ser Ser Ser Gln Gln Leu Leu Val Val Gly
                                105
Pro Cys Ala Leu Arg Phe Val Gly Ala Arg His Val Lys Thr Ala Gly
                            120
Phe Arg Asp Gly Phe Ser Leu Pro Ser Ser Ser Val Phe Ser Glu Phe
Trp Lys Met Thr Leu Leu Glu Ala Pro Leu Leu Cys His Leu Ser Ser
Lys Ser Gly Ala Ser Ala Cys Trp
        165
<210> 1563
<211> 200
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (165)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly
                                     10
Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
                                 25
Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp
Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys
Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr
Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu
Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala
            100
                                105
Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly
Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Xaa Gln Leu Ala Thr
Gly Gln Ala Gly Ile Ile Leu Val Ser Val Xaa Pro Ala Tyr Gln Ala
                                        155
Met Glu Trp Ser Xaa Ser Ser Lys Lys Trp Ala Ser Xaa Ala Leu Val
Val Pro Lys Gln Phe Lys Thr Lys His Asn Thr Thr Phe Leu Lys Gln
                                185
Ile Xaa Pro Xaa Trp Arg Met Pro
```

<210> 1564 <211> 100

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1564
Met Ala Xaa Tyr Val Gly Met Leu Arg Leu Gly Xaa Leu Cys Ala Gly
Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
                                  25
              20
Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Gly
Ser His Gly Leu His Ala His Arg Kaa Ala Ser Ala Thr Kaa Arg Gly
                       - 55
Ala Pro Lys Ser Ile Leu Thr Ala Arg Leu Trp Ala Ser Ala Trp Xaa
                      70
 Pro Gln His Arg Gly Ser Gln Asn Glu Arg Pro Trp Ser Ser Ser Met
                  85
                                      90
 Lys Thr Ser Gly
             100
 <210> 1565
 <211> 461
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (424)
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<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (459) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1565 Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala 100 105 Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Met Gln Leu Ala Thr Ala Gln Ala Gly Ile Ile Leu Val Ser Val Asn Pro Ala Tyr Gln Ala Met Glu Leu Glu Tyr Val Leu Lys Lys Val Gly Cys Lys Ala Leu Val Phe Pro Lys Gln Phe Lys Thr Gln Gln Tyr Tyr Asn Val Leu Lys Gln Ile Cys Pro Glu Val Glu Asn Ala Gln Pro Gly Ala Leu Lys Ser Gln Arg Leu Pro Asp Leu Thr Thr Val Ile Ser Val Asp Ala Pro Leu Pro 210 Gly Thr Leu Leu Leu Asp Glu Val Val Ala Ala Gly Ser Thr Arg Gln 230 His Leu Asp Gln Leu Gln Tyr Asn Gln Gln Phe Leu Ser Cys His Asp 245 Pro Ile Asn Ile Gln Phe Thr Ser Gly Thr Thr Gly Ser Pro Lys Gly 265 Ala Thr Leu Ser His Tyr Asn Ile Val Asn Asn Ser Asn Ile Leu Gly

- Glu Arg Leu Lys Leu His Glu Lys Thr Pro Glu Gln Leu Arg Met Ile 290 295 300
- Leu Pro Asn Pro Leu Tyr His Cys Leu Gly Ser Val Ala Gly Thr Met 305 310 315 320
- Met Cys Leu Met Tyr Gly Ala Thr Leu Ile Leu Ala Ser Pro Ile Phe 325 330 335
- Asn Gly Lys Lys Ala Leu Glu Ala Ile Ser Arg Glu Arg Gly Thr Phe 340 345 350
- Leu Tyr Gly Thr Pro Thr Met Phe Val Asp Ile Leu Asn Gln Pro Asp 355 360 365
- Phe Ser Ser Tyr Asp Ile Ser Thr Met Cys Gly Gly Val Ile Ala Gly 370 375 380
- Ser Pro Ala Pro Pro Glu Leu Ile Arg Ala Ile Ile Asn Lys Ile Asn 385 390 395 400
- Met Lys Asp Leu Val Val Ala Tyr Gly Thr Thr Glu Asn Ser Pro Val
  405 410 415
- Thr Phe Ala His Phe Pro Glu Xaa Thr Pro Lys Pro Leu Asp Lys Glu 420 425 430
- Lys Arg Ala Glu Tyr Ala Ser His Gly Glu Pro Leu Thr Lys Thr 435 440 445
- Ser Lys Ser His Leu Pro Ser Pro Ser Trp Xaa Gly Ser 450 455 460
- <210> 1566
- <211> 177
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (121)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (122)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1566
- Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala 1 5 10 15
- Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro 20 25 30
- Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr

35

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
50 55 60

40

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu 65 70 75 80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile 85 90 95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe 100 105 110

Gly Gln Glu Ala Phe Arg Phe Thr Xaa Xaa Leu Ala Arg Gly Val Ile 115 120 125

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe 130 135 140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys 145 150 155 160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Ser Ser Ile Leu 165 170 175

Gly

<210> 1567

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1567

Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala 1 5 10 15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro 20 25 30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
50 55 60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Gln Arg Leu Glu
65 70 75 80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe 100 105 110

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile 115 120 125

- Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe 130 135 140
- Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys 145 150 155 160
- Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe 165 170 175
- Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln 180 185 190
- Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn 195 200 205
- Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val 210 215 220
- Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val 225 230 235 240
- Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln 245 250 255
- <210> 1568
- <211> 255
- <212> PRT
- <213> Homo sapiens
- <400> 1568
- Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala 1 5 10 15
- Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro 20 25 30
- Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr 35 40 45
- Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu 50 55 60
- Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu 65 70 75 80
- Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe 100 105 110
- Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile 115 120 125
- Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe 130 135 140

```
Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys
                    150
145
Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe
Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln
            180
                                185
Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn
                            200
Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Val
    210
                        215
Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val
                                        235
Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln
                                 . 250
<210> 1569
<211> 52
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1569
Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu His Val Pro Leu
Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
             20
Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Xaa Ile Pro
                             40
Pro Leu Ser Pro
     50
<210> 1570
<211> 1134
<212> PRT
<213> Homo sapiens
<400> 1570
Val Leu Phe Arg Pro Gln Ala Gln Arg Pro Pro Ser Cys Val Gly Gly
                                   10
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Ser Ala Val Arg Arg Trp Gln Gly Gln Pro Gln Pro Gln Arg Pro Gly

- Glu Glu Lys Ala Ala Ala Ile Leu Gly Gly Pro Gly Gly Glu 35 40 45
- Glu Glu Lys Glu Glu Gly Gly Gly Arg Ala Trp Leu Arg Leu Leu Glu 50 55 60
- Glu Leu Ala Ala Ala Arg Pro Gly Glu Pro Ala Leu Met Ser Ser Ser 65 70 75 80
- Pro Leu Ser Lys Lys Arg Arg Val Ser Gly Pro Asp Pro Lys Pro Gly 85 90 95
- Ser Asn Cys Ser Pro Ala Gln Ser Val Leu Ser Glu Val Pro Ser Val
  100 105 110
- Pro Thr Asn Gly Met Ala Lys Asn Gly Ser Glu Ala Asp Ile Asp Glu
  115 120 125
- Gly Leu Tyr Ser Arg Gln Leu Tyr Val Leu Gly His Glu Ala Met Lys 130 140
- Arg Leu Gln Thr Ser Ser Val Leu Val Ser Gly Leu Arg Gly Leu Gly 145 150 155 160
- Val Glu Ile Ala Lys Asn Ile Ile Leu Gly Gly Val Lys Ala Val Thr 165 170 175
- Leu His Asp Gln Gly Thr Ala Gln Trp Ala Asp Leu Ser Ser Gln Phe
  180 185 190
- Tyr Leu Arg Glu Glu Asp Ile Gly Lys Asn Arg Ala Glu Val Ser Gln
  195 200 205
- Pro Arg Leu Ala Glu Leu Asn Ser Tyr Val Pro Val Thr Ala Tyr Thr 210 215 220
- Gly Pro Leu Val Glu Asp Phe Leu Ser Gly Phe Gln Val Val Leu 225 230 235 240
- Thr Asn Thr Pro Leu Glu Asp Gln Leu Arg Val Gly Glu Phe Cys His 245 250 255
- Asn Arg Gly Ile Lys Leu Val Val Ala Asp Thr Arg Gly Leu Phe Gly 260 265 270
- Gln Leu Phe Cys Asp Phe Gly Glu Glu Met Ile Leu Thr Asp Ser Asn 275 280 285
- Gly Glu Gln Pro Leu Ser Ala Met Val Ser Met Val Thr Lys Asp Asn 290 295 300
- Pro Gly Val Val Thr Cys Leu Asp Glu Ala Arg His Gly Phe Glu Ser 305 310 315 320
- Gly Asp Phe Val Ser Phe Ser Glu Val Gln Gly Met Val Glu Leu Asn 325 330 335
- Gly Asn Gln Pro Met Glu Ile Lys Val Leu Gly Pro Tyr Thr Phe Ser 340 345 350

- Ile Cys Asp Thr Ser Asn Phe Ser Asp Tyr Ile Arg Gly Gly Ile Val 355 360 365
- Ser Gln Val Lys Val Pro Lys Lys Ile Ser Phe Lys Ser Leu Val Ala 370 375 380
- Ser Leu Ala Glu Pro Asp Phe Val Val Thr Asp Phe Ala Lys Phe Ser 385 390 395 400
- Arg Pro Ala Gln Leu His Ile Gly Phe Gln Ala Leu His Gln Phe Cys 405 410 415
- Ala Gln His Gly Arg Pro Pro Arg Pro Arg Asn Glu Glu Asp Ala Ala 420 425 430
- Glu Leu Val Ala Leu Ala Gln Ala Val Asn Ala Arg Ala Leu Pro Ala 435 440 . 445
- Val Gln Gln Asn Asn Leu Asp Glu Asp Leu Ile Arg Lys Leu Ala Tyr 450 455 460
- Val Ala Ala Gly Asp Leu Ala Pro Ile Asn Ala Phe Ile Gly Gly Leu 465 470 475 480
- Ala Ala Gln Glu Val Met Lys Ala Cys Ser Gly Lys Phe Met Pro Ile 485 490 495
- Met Gln Trp Leu Tyr Phe Asp Ala Leu Glu Cys Leu Pro Glu Asp Lys 500 505 510
- Glu Val Leu Thr Glu Asp Lys Cys Leu Gln Arg Gln Asn Arg Tyr Asp 515 520 525
- Gly Gln Val Ala Val Phe Gly Ser Asp Leu Gln Glu Lys Leu Gly Lys 530 535 540
- Gln Lys Tyr Phe Leu Val Gly Ala Gly Ala Ile Gly Cys Glu Leu Leu 545 550 560
- Lys Asn Phe Ala Met Ile Gly Leu Gly Cys Gly Glu Gly Gly Glu Ile 565 570 575
- Ile Val Thr Asp Met Asp Thr Ile Glu Lys Ser Asn Leu Asn Arg Gln 580 585 590
- Phe Leu Phe Arg Pro Trp Asp Val Thr Lys Leu Lys Ser Asp Thr Ala 595 600 605
- Ala Ala Val Arg Gln Met Asn Pro His Ile Arg Val Thr Ser His 610 615 620
- Gln Asn Arg Val Gly Pro Asp Thr Glu Arg Ile Tyr Asp Asp Asp Phe 625 630 635 640
- Phe Gln Asn Leu Asp Gly Val Ala Asn Ala Leu Asp Asn Val Asp Ala 645 650 655
- Arg Met Tyr Met Asp Arg Arg Cys Val Tyr Tyr Arg Lys Pro Leu Leu 660 665 670

- Glu Ser Gly Thr Leu Gly Thr Lys Gly Asn Val Gln Val Val Ile Pro 675 680 685
- Phe Leu Thr Glu Ser Tyr Ser Ser Ser Gln Asp Pro Pro Glu Lys Ser 690 695 700
- Ile Pro Ile Cys Thr Leu Lys Asn Phe Pro Asn Ala Ile Glu His Thr 705 710 715 720
- Leu Gln Trp Ala Arg Asp Glu Phe Glu Gly Leu Phe Lys Gln Pro Ala 725 730 735
- Glu Asn Val Asn Gln Tyr Leu Thr Asp Pro Lys Phe Val Glu Arg Thr 740 745 750
- Leu Arg Leu Ala Gly Thr Gln Pro Leu Glu Val Leu Glu Ala Val Gln 755 760 765
- Arg Ser Leu Val Leu Gln Arg Pro Gln Thr Trp Ala Asp Cys Val Thr 770 780
- Trp Ala Cys His His Trp His Thr Gln Tyr Ser Asn Asn Ile Arg Gln 785 790 795 800
- Leu Leu His Asn Phe Pro Pro Asp Gln Leu Thr Ser Ser Gly Ala Pro 805 810 815
- Phe Trp Ser Gly Pro Lys Arg Cys Pro His Pro Leu Thr Phe Asp Val 820 825 830
- Asn Asn Pro Leu His Leu Asp Tyr Val Met Ala Ala Ala Asn Leu Phe 835 840 845
- Ala Gln Thr Tyr Gly Leu Thr Gly Ser Gln Asp Arg Ala Ala Val Ala 850 855 860
- Thr Phe Leu Gln Ser Val Gln Val Pro Glu Phe Thr Pro Lys Ser Gly 865 870 875 880
- Val Lys Ile His Val Ser Asp Gln Glu Leu Gln Ser Ala Asn Ala Ser 885 890 895
- Val Asp Asp Ser Arg Leu Glu Glu Leu Lys Ala Thr Leu Pro Ser Pro 900 905 910
- Asp Lys Leu Pro Gly Phe Lys Met Tyr Pro Ile Asp Phe Glu Lys Asp 915 920 925
- Asp Asp Ser Asn Phe His Met Asp Phe Ile Val Ala Ala Ser Asn Leu 930 935 940
- Arg Ala Glu Asn Tyr Asp Ile Pro Ser Ala Asp Arg His Lys Ser Lys 945 950 955 960
- Leu Ile Ala Gly Lys Ile Ile Pro Ala Ile Ala Thr Thr Thr Ala Ala 965 970 975
- Val Val Gly Leu Val Cys Leu Glu Leu Tyr Lys Val Val Gln Gly His 980 985 990

Arg Gln Leu Asp Ser Tyr Lys Asn Gly Phe Leu Asn Leu Ala Leu Pro 995 1000 1005

Phe Phe Gly Phe Ser Glu Pro Leu Ala Ala Pro Arg His Gln Tyr Tyr 1010 1015 1020.

Asn Gln Glu Trp Thr Leu Trp Asp Arg Phe Glu Val Gln Gly Leu Gln 1025 1030 1035 1040

Pro Asn Gly Glu Glu Met Thr Leu Lys Gln Phe Leu Asp Tyr Phe Lys
1045 . 1050 1055

Thr Glu His Lys Leu Glu Ile Thr Met Leu Ser Gln Gly Val Ser Met 1060 1065 1070

Leu Tyr Ser Phe Phe Met Pro Ala Ala Lys Leu Lys Glu Arg Leu Asp 1075 1080 1085

Gln Pro Met Thr Glu Ile Val Ser Arg Val Ser Lys Arg Lys Leu Gly 1090 1095 1100

Arg His Val Arg Ala Leu Val Leu Glu Leu Cys Cys Asn Asp Glu Ser 1105 1110 1115 1120

Gly Glu Asp Val Glu Val Pro Tyr Val Arg Tyr Thr Ile Arg 1125 1130

<210> 1571

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1571

Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu 1 5 10 15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile 20 25 30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro 35 40 45

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro 50 55 60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu 65 70 75 80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu 85 90 95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser 100 105 110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro 115 120 125

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<210> 1572
<211> 125
<212> PRT
<213> Homo sapiens
<400> 1572
Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu His Val Pro Leu
                                     10
Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
             2.0
                                 2.5
Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro
Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro
Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu
Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu
Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser
                                105
Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro
                            120
<210> 1573
<211> 124
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1573
Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val
Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys
                                 25
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Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu

Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Xaa Glu

55

35

Phe Phe Asn Pro Ser Thr Pro Val Asn Ala Arg Tyr Glu Phe Gly Pro 65 70 75 80

Ala Leu Phe Val Gly Xaa Asp Ser Ala Gly Leu Ala Val Leu Ser Gly 85 90 95

Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser 100 105 110

Pro Gln Ala Leu Ser Ala Trp\_Thr\_Leu Cys Cys Cys 115 120

<210> 1574

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1574

Asn Ser Ala Arg Asp Gln Ala Ser Gly Glu Ser Ile His His Arg Thr 1 5 10 15

Ser Pro Ser Leu Pro Arg Thr Phe Leu Gly Gln Leu His Ser Gly Leu 20 25 30

Leu His His Leu Pro Cys Asp His Ile Ser His His Val Pro Arg Ser

Xaa Glu Arg Ser Ser Ala Ser Pro Ser Ser Leu Thr Leu Arg Gly Lys 50 55 60

Val Thr Glu Thr Lys Ser Asp Glu Met Thr Ala Met Tyr Thr Ala Val 65 70 75 80

Lys Gly Arg Glu Gly Arg Asn Asp Thr Asn Gly Arg Glu Leu Leu Gly 85 90 95

Asn

<210> 1575

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1575

Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val 1 5 10 15

Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys 20 25 30

- Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu 35 40 45
- Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Gln Glu
  50 55 60
- Phe Phe Asn Pro Ser Thr Pro Val Asn Ala Arg Tyr Glu Phe Gly Pro 65 70 75 80
- Ala Leu Phe Val Gly Trp Ala Ser Ala Gly Leu Ala Val Leu Gly Gly 85 90 95
- Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser
- Pro Gln Pro Tyr Arg Pro Gly Pro Ser Ala Ala Ala Arg Glu Tyr Val

<210> 1576

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1576

Met Val Arg Thr Arg Ala Leu Phe Tyr Ile Phe Phe Gln Leu Ser Leu

1 5 10 15

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Ile Tyr Leu 20 25 30

Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser 35 40 45

Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg 50 55 60

Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg
65 70 75 80

Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His
85 90 95

Thr His Thr Lys

<210> 1577

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1577

Met Val Arg Thr Arg Ala Leu Phe Tyr Ile Phe Phe Gln Leu Ser Leu

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Ile Tyr Leu 20 25 30

Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser 35 40 45

Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg 50 55 60

Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg 65 70 75 80

Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His
85 90 95

Thr His Thr Lys 100

<210> 1578

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1578

Cys Arg Gly Asp Ile Gln Ile Arg Asp Lys Gly Glu Ala Met Leu Arg

1 5 10 15

Lys Thr Leu Asp Arg Ala His Phe Thr Pro Pro Asn Arg Tyr Ile Trp 20 25 30

Ile Tyr Pro Phe Ser Ala Ser Ser Phe Ser Thr Ile Lys Asn Val Thr 35 40 45

Ile Leu Asn Ala His Lys Ser His Ser Ser Val Thr Phe Cys Glu Cys 50 55 60

Ser Thr Ile Phe Ser Phe Ser Met Thr Phe Gln Pro Gln Ala Glu Lys
65 70 75 80

Thr Val Tyr Ser Leu Thr Gln Arg Leu Lys Arg Ile Phe Tyr Tyr Phe 85 90 95

Lys Tyr Tyr Thr Phe Arg Thr Ile Thr Cys Leu Arg Lys Leu Ser Gln 100 105 110

Asn Val Asp Leu Val Lys 115

<210> 1579

<211> 181

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1579
Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu
Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val
Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly
Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr
Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu
Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu
Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys
            100
Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe
                            120
Gly Val Met Xaa Phe Leu Asn Ile Ala Met Xaa Ile Val Val Met Val
                        135
    130
Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu
                    150
                                        155
Glu Val Val Arg Asn Leu Arg Xaa Val Xaa Ser Leu Thr Phe Leu Val
                                    170
                165
Gly Met Thr Trp Xaa
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-180

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<210> 1580
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<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1580

Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu 1 5 10 15

Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val 20 25 30

Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly 35 40 45

Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr 50 55 60

Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu 65 70 75 80

Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Glu 85 90 95

Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys 100 105 110

Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe 115 120 125

Gly Val Met Phe Phe Leu Asn Ile Ala Met Phe Ile Val Val Met Val 130 135 140

Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu 145 150 155 160

Glu Val Leu Arg Asn Leu Arg Xaa Val Val Ser Leu Thr Phe Leu Leu 165 170 175

Gly Met Thr Trp Gly Phe Ala Phe Phe Ala Trp Gly Pro Leu Asn Ile 180 185 190

Pro Phe Met Tyr Leu Phe Ser Ile Phe Asn Ser Leu Gln Gly Leu Phe 195 200 205

Ile Phe Ile Phe His Cys Ala Met Lys Glu Asn Val Gln Lys Gln Trp 210 215 220

Arg Arg His Leu Cys Cys Gly Arg Phe Arg Leu Ala Asp Asn Ser Asp 225 230 235 240

Trp Ser Lys Thr Ala Thr Asn Ile Ile Lys Lys Ser Ser Asp Asn Leu

<sup>&</sup>lt;211> 320

<sup>&</sup>lt;212> PRT

Gly Lys Ser Leu Ser Ser Ser Ser Ile Gly Ser Asn Ser Thr Tyr Leu 260 265 270

Thr Ser Lys Ser Lys Ser Ser Ser Thr Thr Tyr Phe Lys Arg Asn Ser 275 280 285

His Thr Asp Asn Val Ser Tyr Glu His Ser Phe Asn Lys Ser Gly Ser 290 295 300

Leu Arg Gln Cys Phe His Gly Gln Val Leu Val Lys Thr Gly Pro Cys 305 310 315 320

<210> 1581

<211> 131

<212> PRT

<213> Homo sapiens

<400> 1581

Asn Ile Phe Leu Glu Trp Ile Leu Arg Arg Ile Leu Ser Leu Trp Arg 1 5 10 15

Gly Thr Phe Leu Met His Gly Arg Ala Gly Val Asn Arg Ile Ser Tyr 20 25 30

Trp Pro Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser 35 40 45

Glu Asp Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn 50 55 .60

Ser Arg Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met 65 70 75 80

Val Gln Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys 85 90 95

Ile Thr Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys
100 105 110

Lys Gln Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys Lys 115 120 125

Lys Lys Thr 130

<210> 1582

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1582

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys 20 25 30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu 35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys
50 60

Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg 65 70 75 80

Ser Met Ser Arg Ser Val Pro

<210> 1583

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1583

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu 1 5 10 15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
20 25 30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys 50 55 60

Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg 65 70 75 80

Ser Met Ser Arg Ser Val Pro

<210> 1584

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1584

Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala 1 5 10 15

Val His Pro Ala Pro Ser Thr Ala Pro Val Gln Asp Lys Cys Pro Val 20 25 30

Asn Thr Trp Glu Ala Met Gln Ala Ser Ser Gln Gln Leu Leu Gln Thr

Asp Pro Arg Pro Lys Pro Phe Leu Leu Pro Pro Leu Pro Pro Leu Leu 50 55 60

Leu Ile Ser Ala Gly Thr Glu Val Ser Ser Leu Val Phe Gln Lys Ser 65 70 75 80

Pro Leu His Thr Gln Pro Glu Gly Ala Ile Lys Thr Ala Gly Gln Pro
85 90 95

Thr Ser Val His Ser Lys Val Leu Ser Lys Gly Ser Leu Leu Gly
100 105 c 110

Glu

<210> 1585

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1585

Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu
1 5 10 15

Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg 20 25 30

Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu 35 40 45

His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala 50 55 60

Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys
65 70 75 80

Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu  $85 \hspace{1cm} 90 \hspace{1cm}$ 

<210> 1586

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1586

His Gln Ala Ile Lys Pro Gly Tyr Ser Ala Glu Asn Val Ala His Thr 1 5 10 15

Asp His Thr Leu Gly Cys Val Thr Ile Val Trp Cys Thr Cys Trp Lys 20 25 30

Asn Ser Ser Met Leu Leu Gly Asp Ile Ile Ser Val Gly Asn Met Pro 35 40 45

Leu Thr Asp Phe Phe Phe Leu Phe Ala Val Gly Leu Gly Gln Leu

Ile Gln Gln Ser Ile Phe Phe Phe Phe Leu Ser Pro Asn Leu Asn Arg 65 70 75 80

Ser Lys Met Cys Ser Gly Ile Pro Gly Asn Arg Cys Val Cys Lys Val 85 90 95

Lys Asn Arg Leu Phe Arg Asn Ser Leu Phe Arg Tyr Leu His Pro Ala 100 105 110

Ser His Val Lys Tyr Leu Ser Leu Lys Gly Leu Arg Cys Thr Ser Phe 115 120 125

Ile Ser Tyr Phe Ser

<210> 1587

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1587

Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu 1 5 10 15

Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg 20 25 30

Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu 35 40 45

His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala 50 55 60

Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys 65 70 75 80

Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu 85 90

<210> 1588

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1588

Met Glu Leu Ser Cys Pro Gly Ser Arg Cys Pro Val Gln Glu Gln Arg
1 5 10 15

Ala Arg Trp Glu Arg Lys Arg Ala Cys Thr Ala Arg Glu Leu Leu Glu

Thr Glu Arg Arg Tyr Gln Glu Gln Leu Gly Leu Val Ala Thr Tyr Phe
35 40 45

Leu Gly Ile Leu Lys Ala Lys Gly Thr Leu Arg Pro Pro Glu Arg Gln 50 55 60

Ala Leu Phe Gly Ser Trp Glu Leu Ile Tyr Gly Ala Ser Gln Glu Leu 65 70 75 80

Leu Pro Tyr Leu Glu Gly Gly Cys Trp Gly Gln Gly Leu Glu Gly Phe
85 90 95

Cys Arg His Leu Glu Leu Tyr Asn Gln Phe Ala Ala Asn Ser Glu Arg 100 105 110

Ser Gln Thr Xaa Leu Gln Glu Gln Leu Lys Lys Asn Lys Gly Phe Arg

Lys Phe Val Arg Leu Gln Glu Gly Arg Pro Glu Phe Gly Gly Leu Gln 130 135 140

Leu Gln Asp Leu Leu Pro Leu Pro Leu Gln Arg Leu Gln Gln Tyr Glu 145 150 155 160

Asn Leu Val Val Ala Leu Ala Glu Asn Thr Gly Pro Asn Ser Pro Asp 165 170 175

His Gln Gln Leu Thr Arg Arg Phe Leu Leu Gly Asn Ala Gly Trp 180 185 190

Arg Leu Pro Leu Leu Tyr Ser Phe Leu Ile Leu Thr Ser Asn Asn Val 195 200 205

Trp Tyr Asp Pro Ile Phe His 210 215

<210> 1589

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1589

Glu Ile Leu Leu Lys Lys Lys Asn Gln Glu Thr Lys Ser Asn Pro Thr 1 5 10 15

Lys Pro Gln Met Asn Gln Pro Leu Thr Gln Met Arg Gly Phe Gly Thr 20 25 30

Asp Lys Leu Cys Ala Val Ser Met Ala Arg His Leu Ser Arg Leu Gln 35 40 45

Leu Cys Lys Cys Gly Tyr Phe Tyr Val Val Tyr Ser Phe Tyr His Leu 50 55 60

Phe Phe His Trp Ile 65

210

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<210> 1590
<211> 211
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1590
Met Ser Gly Met Thr Leu Ser Ser Thr Asp Met Tyr Thr Val Ser Leu
Leu Leu Cys Leu Xaa Phe Lys Lys Ser Asp Pro Asp Pro Gly Pro Phe
Gln Asn Asn Leu Phe His Asn His Gly Thr Gln Ser Gln Ser Cys Met
Gly Ser Lys Val Gly Asp Val Ile Pro Gly Ala Ala Arg Leu Ile Ser
Glu Thr Ala Gln Arg Val His Thr Ile Gly Gln Lys Gln Lys Asn Asp
Gln His Leu Arg Arg Val Gln Ala Leu Leu Ser Gly Arg Gln Ala Lys
                                      90
Gly Leu Thr Ser Gly Arg Trp Xaa Leu Arg Gln Gly Trp Leu Leu Val
            100
                                 105
Val Pro Pro His Gly Glu Pro Arg Pro Arg Met Phe Phe Leu Phe Thr
Asp Val Leu Leu Met Ala Lys Pro Arg Pro Pro Leu His Leu Leu Arg
    130
                        135
                                             140
Ser Gly Thr Phe Ala Cys Lys Ala Leu Tyr Pro Met Ala Gln Cys His
                    150
                                         155
Leu Ser Arg Val Phe Gly His Ser Gly Gly Pro Cys Gly Gly Leu Leu
                165
Ser Leu Ser Phe Pro Arg Glu Lys Leu Leu Leu Met Ser Thr Asp Gln
                                185
Glu Glu Leu Ser Arg Trp Tyr His Ser Leu Thr Trp Ala Ile Ser Ser
        195
                            200 .
Gln Lys Asn
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<210> 1591
<211> 349
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (334)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (344)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (348)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1591
Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro
Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
                           40
Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
     50
Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
                                         75
Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys
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Ser	Gln	Gly	Tyr 100	Asp	Trp	Ser	Glu	Pro 105	Phe	Ser	Pro	Gly	Glu 110	Asp	Glu
Phe	Lys	Cys 115	Pro	Ile	Lys	Glu	Glu 120	Ile	Ala	Leu	Thr	Ser 125	Gly	Glu	Trp
Glu	Val 130	Leu	Ala	Arg	His	Gly 135	Ser	Lys	Ile	Trp	Val 140	Asn	Glu	Glu	Thr
Lys 145	Leu	Val	Tyr	Phe	Gln 150	Gly	Thr	Lys	Asp	Thr 155	Pro	Leu	Glu	His	His 160
Leu	Tyr	Val	Val	Ser 165	Tyr	Glu	Ala	Ala	Gly 170	Glu	Ile	Val	Arg	Leu 175	Thr
Thr	Pro	Gly	Phe 180	Ser	His	Xaa	Cys	Ser 185	Met	Ser	Gln	Asn	Phe 190	Xaa	Xaa
Phe	Val	Ser 195	His	Ile	Thr	Ala	Gln 200	Val	Ala	Ala	Ala	Ser 205	Ala	Gly	Asn
Gl'n	Ala 210	Gly	Gly	Thr	Glu	Trp 215	Pro	Ala	Gly	Pro	Ser 220	Glu	Ala	Leu	Cys
Pro 225	Ala	Gln	Arg	Trp	Pro 230	Ala	Pro	Arg	Ser	Arg 235	Суѕ	Leu	His	Arg	Pro 240
Asp	Ala	Phe	Tyr	Pro 245	Phe	Leu	Asn	Ala	Leu 250	Gly	Phe	Туr	Val	Arg 255	Cys
Phe	Leu	Val	Ala 260	Glu	Thr	Glu	Arg	Trp 265	Trp	Ser	Arg	Ala	Ser 270	Pro	Ser
Ser	Pro	Arg 275	Leu	Leu	Gly	Gly	Gly 280	Gly	His	Thr	Leu	Met 285	Gly	Thr	Gly
Glu	Ala 290	Arg	Arg	Asp	Ser	Glu 295	Glu	Arg	Ala	Ala	Phe 300	Arg	Leu	Gly	Leu
Pro	Val	Thr	Ser	Gln	Ser 310	Pro	Gly	Pro	Ala	Ser 315	His	Arg	Pro	Gln	His

Pro Ser Met Gln Leu Pro Val Pro Pro Gly Gln Pro Pro Xaa Leu Asp

325 330 335

Val Cys Val Leu Phe Gly Gly Xaa Xaa Phe Ile Xaa Ile  $340 \hspace{1cm} 345 \hspace{1cm}$ 

<210> 1592

<211> 144

<212> PRT

<213> Homo sapiens

<400> 1592

Ala Pro Phe Leu Pro Lys Pro Glu Gln Arg Val Met Arg Ala Pro Gln
1 5 10 15

Glu Lys Arg Pro Gly Pro Ala Gly Gly Thr Thr Cys Gly Gln Pro Ser 20 25 30

Cys Pro Gln Ala Phe Arg Gln Ala Leu Lys Arg Thr Glu Leu Pro Arg 35 40 45

Ser Ala Gly Gln Trp Arg Leu Ser Pro Pro Gln Pro Ser Arg Pro Ala 50 55 60

Thr Cys Val Cys Leu Thr Arg Thr His Gln Gly Phe Arg Gly Trp Glu 65 70 75 80

Leu Asn His Pro His Leu Arg Val Ile Phe Pro Ser Pro Leu Pro Ser 85 90 95

Pro Pro Arg Ala Leu Pro Gly Ala Gly Lys Lys Lys Ser Lys Lys Lys Lys 100 105 110

Arg Lys Lys Lys Arg Asn Lys Pro Pro Leu His Ile Met Glu Arg 115 120 125

Lys Tyr Phe Cys Arg Phe Leu Phe Phe Tyr Asn Tyr Ala Trp Lys Lys 130 135 140

<210> 1593

<211> 497

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1593

Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro 1 5 10 15

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala 20 25 30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu 35 40 45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe 50 55 60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu 65 70 75 80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys
85
90
95

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu

100 105 110

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp 115 120 Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His 155 Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr 170 Thr Pro Gly Phe Ser His Kaa Cys Ser Met Ser Gln Asn Phe Asp Met Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val 200 Tyr Lys Leu Ser Gly Pro Asp Asp Pro Leu His Lys Gln Pro Arg 215 Phe Trp Ala Ser Met Met Glu Ala Ala Ser Cys Pro Pro Asp Tyr Val 230 Pro Pro Glu Ile Phe His Phe His Thr Arg Ser Asp Val Arg Leu Tyr Gly Met Ile Tyr Lys Pro His Ala Leu Gln Pro Gly Lys Lys His Pro 265 Thr Val Leu Phe Val Tyr Gly Gly Pro Gln Val Gln Leu Val Asn Asn Ser Phe Lys Gly Ile Lys Tyr Leu Arg Leu Asn Thr Leu Ala Ser Leu Gly Tyr Ala Val Val Ile Asp Gly Arg Gly Ser Cys Gln Arg Gly Leu Arg Phe Glu Gly Ala Leu Lys Asn Gln Met Gly Gln Val Glu Ile Glu Asp Gln Val Glu Gly Leu Gln Phe Val Ala Glu Lys Tyr Gly Phe 345 Ile Asp Leu Ser Arg Val Ala Ile His Gly Trp Ser Tyr Gly Gly Phe Leu Ser Leu Met Gly Leu Ile His Lys Pro Gln Val Phe Lys Val Ala 375 Ile Ala Gly Ala Pro Val Thr Val Trp Met Ala Tyr Asp Thr Gly Tyr 395 390 Thr Glu Arg Tyr Met Asp Val Pro Glu Asn Asn Gln His Gly Tyr Glu 410 405

Ala Gly Ser Val Ala Leu His Val Glu Lys Leu Pro Asn Glu Pro Asn

430

COETAD CHIECI

Arg Leu Leu Ile Leu His Gly Phe Leu Asp Glu Asn Val His Phe Phe 435 440 445

His Thr Asn Phe Leu Val Ser Gln Leu Ile Arg Ala Gly Lys Pro Tyr 450 455 460

Gln Leu Gln Ile Tyr Pro Asn Glu Arg His Ser Ile Arg Cys Pro Glu 465 470 475 480

Ser Gly Glu His Tyr Glu Val Thr Leu Leu His Phe Leu Gln Glu Tyr 485 490 495

Leu

<210> 1594

<211> 497

<212> PRT

<213> Homo sapiens

<400> 1594

Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro 1 5 10 15

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala 20 25 30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu 35 40 45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe 50 55 60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu 65 70 75 80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys 85 90 95

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu
100 105 110

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp 115 120 . 125

Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr 130 135 140

Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His 145 150 155 160

Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr 165 170 175

Thr Pro Gly Phe Ser His Ser Cys Ser Met Ser Gln Asn Phe Asp Met 180 185 190

- Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val 195 200 205
- Tyr Lys Leu Ser Gly Pro Asp Asp Pro Leu His Lys Gln Pro Arg 210 215 220
- Phe Trp Ala Ser Met Met Glu Ala Ala Ser Cys Pro Pro Asp Tyr Val 225 230 235 240
- Pro Pro Glu Ile Phe His Phe His Thr Arg Ser Asp Val Arg Leu Tyr 245 250 255
- Gly Met Ile Tyr Lys Pro His Ala Leu Gln Pro Gly Lys Lys His Pro 260 265 270
- Thr Val Leu Phe Val Tyr Gly Gly Pro Gln Val Gln Leu Val Asn Asn 275 280 285
- Ser Phe Lys Gly Ile Lys Tyr Leu Arg Leu Asn Thr Leu Ala Ser Leu 290 295 300
- Gly Tyr Ala Val Val Val Ile Asp Gly Arg Gly Ser Cys Gln Arg Gly 305 310 315 320
- Leu Arg Phe Glu Gly Ala Leu Lys Asn Gln Met Gly Gln Val Glu Ile 325 330 335
- Glu Asp Gln Val Glu Gly Leu Gln Phe Val Ala Glu Lys Tyr Gly Phe 340 345 350
- Ile Asp Leu Ser Arg Val Ala Ile His Gly Trp Ser Tyr Gly Gly Phe 355 360 365
- Leu Ser Leu Met Gly Leu Ile His Lys Pro Gln Val Phe Lys Val Ala 370 375 380
- Tle Ala Gly Ala Pro Val Thr Val Trp Met Ala Tyr Asp Thr Gly Tyr 385 390 395 400
- Thr Glu Arg Tyr Met Asp Val Pro Glu Asn Asn Gln His Gly Tyr Glu 405 410 415
- Ala Gly Ser Val Ala Leu His Val Glu Lys Leu Pro Asn Glu Pro Asn 420 425 430
- Arg Leu Leu Ile Leu His Gly Phe Leu Asp Glu Asn Val His Phe Phe 435 440 445
- His Thr Asn Phe Leu Val Ser Gln Leu Ile Arg Ala Gly Lys Pro Tyr 450 455 460
- Gln Leu Gln Ile Tyr Pro Asn Glu Arg His Ser Ile Arg Cys Pro Glu 465 470 475 480
- Ser Gly Glu His Tyr Glu Val Thr Leu Leu His Phe Leu Gln Glu Tyr 485 490 495

Leu

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<210> 1595
<211> 180
<212> PRT
<213> Homo sapiens
<400> 1595
Met Thr Ser Val Se
```

Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile 1 5 10 15

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu
20 25 30

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn 35 40 45

Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser 50 55 60

Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly 65 70 75 80

Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Pro 85 90 95

Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His 100 105 110

Gln Ser Leu Asn Ser Leu Val Thr.Ile Ser Ser Asn His Val Pro Glu 115 120 125

Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Arg Leu 130 135 140

Ser Ala Ser Phe Asn Ala Ser Pro Gly Ala Ile Ser Ala Lys Thr Lys 145 150 155 160

Phe Ser Arg Lys Gln Ile Phe Gln Glu Leu Gln Ile Cys Pro Ser Arg 165 170 175

His Gly Gln Ile 180

<210> 1596 <211> 240 <212> PRT <213> Homo sapiens

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu 20 25 30

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn

 Cys
 Arg
 Val
 Ala
 Glu
 Ser
 Thr
 Tyr
 Glu
 His
 His
 Pro
 Lys
 Pro
 Ser

 Arg
 Glu
 Ile
 His
 Lys
 Gly
 Asp
 Ile
 Thr
 Leu
 Val
 Pro
 Thr
 Ile
 Asn
 Gly
 80

 Thr
 Leu
 Pro
 Ile
 Arg
 Ger
 His
 His
 Arg
 Ser
 Pro
 90
 Ser
 Ser
 Ser
 Pro
 95
 Pro
 Pro
 Pro
 Pro
 95
 Pro
 80
 Pro
 95
 Pro
 Rer
 Ser
 Ser
 Pro
 95
 Pro
 Ser
 Ser
 Ser
 Pro
 95
 Pro
 Ser
 Ser
 Ser
 Pro
 95
 Pro
 Ser
 Pro
 Pro
 Pro
 Ser
 Ser
 Pro
 Pro
 Pro
 Asn
 His
 Asn
 Pro
 Pro
 Pro
 Asn
 Pro
 Pro
 <td

<210> 1597

<211> 447

<212> PRT

<213> Homo sapiens

<400> 1597

Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile 1 10 15

230

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu 20 25 30

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn 35 40 45

Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser 50 60

Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Pro Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Val Ser 135 Gln Leu Leu Ser Met Leu His Gln Gly Gln Tyr Gln Pro Arg Pro Ser Phe Arg Gly Asn Lys Tyr Ser Arg Ser Tyr Arg Tyr Ala Leu Gln Asp Met Asp Lys Phe Ser Leu Lys Asp Ser Gly Arg Gly Asp Ser Glu Ala 180 Gly Asp Ser Asp Tyr Asp Leu Gly Arg Asp Ser Pro Ile Asp Arg Leu 200 Leu Gly Glu Gly Phe Ser Asp Leu Phe Leu Thr Asp Gly Arg Ile Pro 215 Ala Ala Met Arg Leu Cys Thr Glu Glu Cys Arg Val Leu Gly His Ser Asp Gln Cys Trp Met Pro Pro Leu Pro Ser Pro Ser Ser Asp Tyr Arg Ser Asn Met Phe Ile Pro Gly Glu Glu Phe Pro Thr Gln Pro Gln Gln 260 Gln His Pro His Gln Ser Leu Glu Asp Asp Ala Gln Pro Ala Asp Ser Gly Glu Lys Lys Lys Ser Phe Ser Thr Phe Gly Lys Asp Ser Pro Asn 295 Asp Glu Asp Thr Gly Asp Thr Ser Thr Ser Ser Leu Leu Ser Glu Met 310 315 Ser Ser Val Phe Gln Arg Leu Leu Pro Pro Ser Leu Asp Thr Tyr Ser 325 Glu Cys Ser Glu Val Asp Arg Ser Asn Ser Leu Glu Arg Arg Lys Gly 345 Pro Leu Pro Ala Lys Thr Val Gly Tyr Pro Gln Gly Val Ala Ala Trp 360 355 Ala Ala Ser Thr His Phe Gln Asn Pro Thr Thr Asn Cys Gly Pro Pro

380

375

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Leu Gly Thr His Ser Ser Val Gln Pro Ser Ser Lys Trp Leu Pro Ala
385 390 395 400
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Met Glu Glu Ile Pro Glu Asn Tyr Glu Glu Asp Asp Phe Asp Asn Val 405 410 415

Leu Asn His Leu Asn Asp Gly Lys His Glu Leu Met Asp Ala Ser Glu 420 425 430

Leu Val Ala Glu Ile Asn Lys Leu Leu Gln Asp Val Arg Gln Ser 435 440 445

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<210> 1598
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<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1598

Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly
1 5 10 15

Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg 20 25 30

Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Xaa Leu Gly 35 40 45

Ala Pro Arg Pro Pro Gly Gly Gln Asp Pro Ser His Gln Arg Leu Gly 50 55 60

Arg Gly Glu Leu Pro Leu Val Arg Gln His His Arg Asp Leu His His 65 70 75 80

Arg Gly Pro His Gln Glu Gly Leu Gln Val His His Gln His Glu
85 90 95

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<210> 1599
```

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1599

Xaa Pro Ser Trp Trp Gly Pro Arg Trp Cys Arg Ser Ser Cys Gly Val
1
5
10
15
.

<sup>&</sup>lt;211> 152

<sup>&</sup>lt;212> PRT

Ala Arg Thr Arg Val Val His Pro Val Arg Val Ala Asp Gly Leu Asp 20 25 30

Leu Ala Leu Leu Glu Val Gly Glu Leu Pro Ala Gly His Ala Leu Leu
35 40 45

Ala Val Leu Val Val Glu Leu His Val Ala Ala Arg Leu Asp Pro Ala 50 55 60

Asn Tyr Pro Ser Leu Leu Gly Asp Gly Arg His Asp His Leu Gly 65 70 75 80

Arg Gly Pro Glu Val Gly Cys Pro Val Ala Glu His His Ala Gly Gly 85 90 95

Leu Ile Asp Ala Ser Gly Asp Gly Val Asp Gly Gly Phe His Ile Asn 100 105 110

His Arg Asp Pro Phe Pro Glu Asp Ser Gly Phe Ala Ser Asp Ala Leu 115 120 125

Asn Thr Ala His Gly Ile Gln Glu Arg Ser Asp Leu Gln Gly Arg Pro 130 135 140

Ala Val Thr Glu Lys Thr Arg His 145 150

<210> 1600

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1600

Met Arg Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
1 5 10 15

Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met 20 25 30

Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr 35 40 45

Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met 50 55 60

Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
65 70 75 80

Ser Arg

<210> 1601

<211> 306

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (219)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1601
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
             20
Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
     50
Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu-Asp Gly Val Ala Ala
                     70
                                          75
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Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile 130 135 140

Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly 145 150 155 160

Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
165 170 175

Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg 180 185 190

Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa 195 200 205

Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser 210 215 220

Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro 225 230 235 240

Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys 245 250 255

Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln 260 265 270

Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro 275 280 285

Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys 290 295 300

Glu Lys 305

<210> 1602

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1602

Met Glu Asp Arg Leu Leu Leu Ile Leu Val Phe Pro Leu Leu Trp Phe 1 5 10 15

Pro Val Ala Val Phe Gln Leu Val Leu Leu Pro Phe Leu Leu Ile 20 25 30 His Ser Leu Asn Cys Leu Glu Trp Arg His Leu Phe Ser Ala Tyr Arg 35 40 45

Val His Ile Leu Ala Trp Leu Ala Tyr Pro Cys Phe Cys Val Ser Leu
50 60

Arg Val Arg His Cys Ile Glu Leu Phe Ile Gln Ile Val Leu Ser Leu 65 70 75 80

Pro Gln Cys Cys Gly Ile Gly Gly Val Pro Ile Leu 85 90

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1603

Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro 35 40 45

Gly His Trp Val Glu Glu Thr Val Leu Gly Xaa Thr Arg Arg Glu Gly 50 55 60

Pro Gly Leu Phe Pro

<210> 1604

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1604

Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu

1 5 10 15

Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro 40 45

Gly His Trp Val Glu Glu Thr Val Leu Gly Arg Ser Arg Glu Gly 50 60

50

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<210> 1605
<211> 76
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1605
Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
                              40
         35
Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
                         55
Asp Arg Xaa Arg Gln Gly Phe Ser Thr Xaa Tyr Lys
                     70
<210> 1606
<211> 201
<212> PRT
<213> Homo sapiens
<400> 1606
Met Val Ala Met Val Glu Val Gln Leu Asp Ala Asp His Asp Tyr Pro
Pro Gly Leu Leu Ile Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala
Val His Leu Phe Ala Leu Met Ile Ser Thr Cys Ile Leu Pro Asn Ile
```

Glu Ala Val Ser Asn Val His Asn Leu Asn Ser Val Lys Glu Ser Pro

His Glu Arg Met His Arg His Ile Glu Leu Ala Trp Ala Phe Ser Thr

75

95

85

Val Lys Phe Leu Pro Leu Lys Lys Gln Pro Gly Gln Pro Arg Pro Thr 100 105 110

90

Ser Lys Pro Pro Ala Ser Gly Ala Ala Ala Asn Val Ser Thr Ser Gly 115 120 125

Ile Thr Pro Gly Gln Ala Ala Ala Ile Ala Ser Thr Thr Ile Met Val 130 135 140

Pro Phe Gly Leu Ile Phe Ile Val Phe Ala Val His Phe Tyr Arg Ser 145 150 155 160

Leu Val Ser His Lys Thr Asp Arg Gln Phe Gln Glu Leu Asn Glu Leu 165 170 175

Ala Glu Phe Ala Arg Leu Gln Asp Gln Leu Asp His Arg Gly Asp His 180 185 190

Pro Leu Thr Pro Gly Ser His Tyr Ala 195 200

<210> 1607

<211> 23

<212> PRT

<213> Homo sapiens

<400> 1607

Met Ser Ala Cys Thr Ala Thr Ser Ser Trp Pro Gly Pro Ser Pro Pro 1 5 10 15

Ser Ser Ala Arg Cys Ser Ser 20

<210> 1608

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1608

Tyr Phe Ser Val Gly Gln Arg Gln Cys Trp Ile Ser Phe Thr Leu Thr 1 5 10 15

Ala Gln Asn Ser Ile Cys Cys Leu Pro Cys Asn Leu Arg Thr Asn Thr 20 25 30

His Leu Leu Tyr Asn Pro Arg Gly Asp Ile Lys Leu Thr Gln Leu 35 40 45

Ala Met Leu Leu Ala Glu Ile Ser Ser Val Ala His Gln Lys Asp Gly 50 55 60

Ser Phe Cys Pro Ile Val Met Cys Gly Asp Phe Asn Ser Val Pro Gly 65 70 75 80

Ser Pro Leu Tyr Ser Phe Ile Lys Glu Gly Lys Leu Asn Tyr Glu Gly 85 90 95

Leu Pro Ile Gly Lys Val Ser Gly Gln Glu Gln Ser Ser Arg Gly Gln
100 105 110

Arg Ile Leu Ser Ile Pro Ile Trp Pro Pro Asn Leu Gly Ile Ser Gln
115 120 125

Asn Cys Val Tyr Glu Val Gln Gln Val Pro Lys Val Glu Lys Thr Asp 130 . 135 140

Ser Asp Leu Thr Gln Thr Gln Leu Lys Gln Thr Glu Val Leu Val Thr 145 150 155 160

Ala Glu Lys Leu Ser Ser Asn Leu Gln His His Phe Ser Leu Ser Ser 165 170 175

Val Tyr Ser His Tyr Phe Pro Asp Thr Gly Ile Pro Glu Val Thr Thr 180 185 190

Cys His Ser Arg Ser Ala Ile Thr Val Asp Tyr Ile Xaa Leu Leu Cys 195 200 205

Arg Lys Gly Xaa Cys Cys Trp Ala Pro Arg Ser 210 215

<210> 1609

<211> 267

<212> PRT

<213> Homo sapiens

<400> 1609

Met Leu Ile Ala Val Gly Ile His Leu Leu Leu Met Phe Glu Val

Leu Val Cys Asp Arg Val Glu Arg Gly Thr His Phe Trp Leu Leu Val 20 25 30

Phe Met Pro Leu Phe Phe Val Ser Pro Val Ser Val Ala Ala Cys Val 35 40 45

Trp Gly Phe Arg His Asp Arg Ser Leu Glu Leu Glu Ile Leu Cys Ser 50 55 60

Val Asn Ile Leu Gln Phe Ile Phe Ile Ala Leu Lys Leu Asp Arg Ile 65 70 75 80

<221> SITE

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Ile His Trp Pro Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met
Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu
Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val
Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe
Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr
                    150
                                        155
Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala
                165
                                    170
Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg
                                185
Arg Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu
                            200
                                                205
Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp Ala
                        215
Glu Glu Thr Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe Gly
225
Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Pro
                245
Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp
            260
<210> 1610
<211> 123
<212> PRT
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<210> 1610
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<221> SITE
<222> (108)
<220>
<221> SITE
<222> (108)
<220>
<221> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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50

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<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser
Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val
                                 25
Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro
Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly
His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Gln Glu Ala
Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Xaa Xaa Glu Glu Phe
Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro Xaa Arg Leu Leu Gln
                                105
            100
Ala His His Asn Xaa Thr Tyr Lys Gln Xaa Tyr
       115
                            120
<210> 1611
<211> 52
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
Pro Gly Leu Arg Lys Asn Arg Pro Ser Val Pro Arg Arg Ser Ser Pro
Gly Arg Ile Ser Gly Leu Ser Ser Val Ala Trp Asn Pro Asp His Ser
Ile Ser Val Phe Xaa Leu Ala Glu Leu Thr Ser Arg Ala Gln Leu Ala
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Gly Asn Met Ile Thr Thr Ala Gly Lys Val Val Thr Ile Leu Leu
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Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe
Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr
Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln
Glu Ala Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu
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           100
Glu Phe Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro
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Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Gln Glu Ala 75 Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu Glu Phe 90

Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro